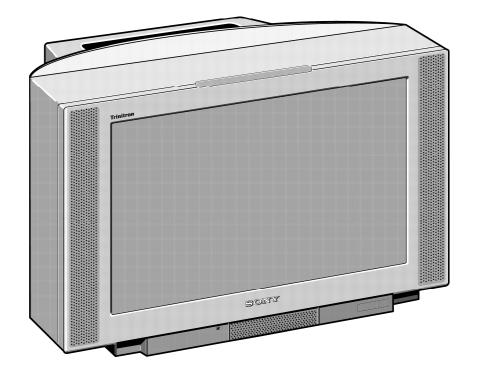


### **SERVICE MANUAL**

### AE-5 CHASSIS

MODEL	COMMANDER	DEST	CHASSIS NO.	MODEL	COMMANDER	DEST	CHASSIS NO.
KV-28FX60	<b>A</b> RM-891	Italian	SCC-Q12D-A	KV-32FX60	<b>A</b> RM-89	1 Italian	SCC-Q12B-A
KV-28FX60	<b>B</b> RM-891	French	SCC-Q13D-A	KV-32FX60	<b>B</b> RM-89	1 French	SCC-Q13B-A
KV-28FX60	RM-891	AEP	SCC-Q11D-A	KV-32FX60	<b>D</b> RM-89	1 AEP	SCC-Q11B-A
KV-28FX60	RM-891	Spanish	SCC-Q14D-A	KV-32FX60	<b>E</b> RM-89	1 Spanish	SCC-Q14B-A
KV-28FX60	RM-891	OIRT	SCC-Q16F-A	KV-32FX60	<b>K</b> RM-89	1 OIRT	SCC-Q16A-A
KV-28FX60	<b>R</b> M-891	OIRT	SCC-Q16E-A	KV-32FX60	<b>R</b> RM-89	1 OIRT	SCC-Q16B-A
KV-28FX60	RM-891	UK	SCC-Q15C-A	KV-32FX60	<b>U</b> RM-89	1 UK	SCC-Q15B-A







TRINITRON ® COLOR TV

SONY®

ITEM MODEL	Television System	Stereo System	Channel Coverage	Color System
Italian	B/G/H,D/K	GERMAN Stereo	ITALIA VHF: A-H2 (C) UHF: 21-69 PAL B/G/H VHF: E2-E12 UHF: E21-E69 CABLE TV (1): S1-S41 CABLE TV (2): S01-S05,M1-M10,U1-U10 DK VHF: R01-R12 UHF: R21-R69	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
French	B/G/H, D/K,L,I	GERMAN/NICAM Stereo	L VHF: F02-F10 UHF: F21-F60 CABLE: B-Q B/G/H VHF: E2-E12 UHF: E21-E69 CABLE TV (1): S1-S41 CABLE TV (2): S01-S05, M1-M10, U1-U10 ITALIA VHF: A-H2 (C) UHF: 21-69 I UHF: B21-B69	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
AEP	B/G/H, D/K	GERMAN Stereo	PAL B/G/H/ VHF: E2-E12: E21-E69 CABLE TV (1): S1-S41 CABLE TV (2): S01-S05, M1-M10, U1-U10 ITALIA VHF: A-H2 (C) UHF: 21-69 D/K VHF: R01-R12 UHF: R21-R69	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
Spanish	B/G/H, D/K	GERMAN/NICAM Stereo	PAL B/G/H/ VHF : E2-E12 : E21-E69 CABLE TV (1) : S1-S41 CABLE TV (2) : S01-S05, M1-M10, U1-U10 ITALIA VHF : A-H2 (C) UHF : 21-69	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
OIRT	B/G/H, D/K	KV-28FX60K/32FX60K GERMAN/NICAM Stereo KV-28FX60R/32FX60R GERMAN Stereo	B/G/H/ VHF : E2-E12 UHF : E21-E69 CABLE TV (1) : S1-S41 D/K VHF : R01-R12 UHF : R21-R69	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
UK	1	NICAM Stereo	UHF : B21-B69	PAL NTSC4.43, NTSC3.58 (VIDEO IN)

MODEL	28FX60A	28FX60B	28FX60D	28FX60E	28FX60K	28FX60R	28FX60U
Power Consumption	132W						
MODEL	32FX60A	32FX60B	32FX60D	32FX60E	32FX60K	32FX60R	32FX60U
PowerConsumption	124W						

[PICTURE TUBE]

KV-28FX60 FD Trinitron

Approx. 71 cm (28 inches) (Approx. 66 cm picture measured

diagonally)

102 degree deflection

**KV-32FX60** FD Trinitron

Approx. 82 cm (32 inches) (Approx. 76 cm picture measured

diagonally)

102 degree deflection

**Input/Output Terminals** 

[REAR]

→ 1/ → 1 21-pin Euro connector (CENELEC standard).

- Inputs for Audio and Video signals.

- Inputs for RGB.

- Outputs of TV Video and Audio signals.

 $\Leftrightarrow$  2/ $\Rightarrow$ S 2 21-pin Euro connector

- Inputs for Audio and Video signals.

- Inputs for S video.

- Outputs forVideo and Audio signals (selectable).

⇒ 3/→S 3 21-pin Euro connector

- Inputs for Audio and Video signals.

- Inputs for S video.

External speaker terminals : 2-pin Din (5)

[FRONT]

3 Video output - phono jack

3 Audio inputs - phono jacks

→S 3 S Video input - 4 pin din

Headphone jack: stereo minijack

Sound output 2x25W (Music Power) Subwoofer 25W (Music Power)

Power requirements 220 - 240V

Dimensions

KV-28FX60 Approx 772x497x533 (w/h/d) KV-32FX60 Approx 867x564x558 (w/h/d)

Weight

KV-28FX60 Approx 42.5kg KV-32FX60 Approx 65 kg

Supplied accessories RM-891 Remote Commander (1)

IEC designated R6 battery (2)

Other features NICAM\*, FASTEXT, TOPTEXT

\* (KV-28FX60B,28FX60E,28FX60K,28FX60U,

32FX60B,32FX60E,32FX60K,32FX60U only)

### [RM-891]

Power requirements 3V dc

2 batteries IEC designation

R6 (size AA)

Dimensions Approx 210x56x24mm (w/h/d)
Weight Approx 110g (Not including battery)

### Design and specifications are subject to change without notice.

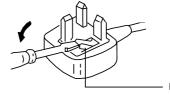
Model Name	KV-28FX60A	KV-28FX60B	KV-28FX60D	KV-28FX60E	KV-28FX60K	KV-28FX60R	KV28FX60U
Item	KV-32FX60A	KV-32FX60B	KV-32FX60D	KV-32FX60E	KV-32FX60K	KV-32FX60R	KV-32FX60U
Pal Comb	OFF						
PIP	OFF						
RGB Priority	ON						
Woofer Box	ON						
Scart 1	ON	ON	ON	ON	OFF	ON	ON
Scart 2	ON						
Front in (3)	ON						
Scart 4	ON						
Projector	OFF						
AKB in 16:9 mode	ON						
Norm B/G	ON	ON	ON	ON	ON	ON	OFF
Norm I	OFF	ON	OFF	OFF	OFF	OFF	ON
Norm D/K	ON	ON	ON	ON	ON	ON	OFF
Norm AUS	OFF						
Norm L	OFF	ON	OFF	OFF	OFF	OFF	OFF
Norm SAT	OFF						
Norm M	OFF						
Teletext	ON						
Nicam Stereo	OFF	ON	OFF	ON	ON	OFF	ON
Language Preset	Italian	French	German	Spanish	OIRT	OIRT	English

### WARNING (KV-28FX60U/32FX60U only)

The flexible mains lead is supplied connected to a **B.S. 1363** fused plug having a fuse of **5 AMP** capacity. Should the fuse need to be replaced, use a **5 AMP FUSE** approved by **ASTA** to **BS 1362**, ie one that carries the mark.

IF THE PLUG SUPPLIED WITH THIS APPLIANCE IS NOT SUITABLE FOR THE OUTLET SOCKETS IN YOUR HOME, IT SHOULD BE CUT OFF AND AN APPROPRIATE PLUG FITTED. THE PLUG SEVERED FROM THE MAINS LEAD MUST BE DESTROYED AS A PLUG WITH BARED WIRES IS DANGEROUS IF ENGAGED IN A LIVE OUTLET SOCKET.

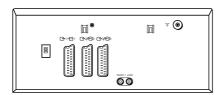
When an alternative type of plug is used it should be fitted with a **5 AMP FUSE**, otherwise the circuit should be protected by a **5 AMP FUSE** at the distribution board.

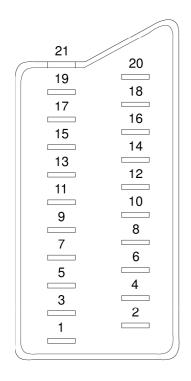


How to replace the fuse. Open the fuse compartment with a screwdriver blade and replace the fuse.

FUSE

### 21 pin connector





Pin No	1	2	4	Signal	Signal level
1	•		-	Audio output B	Standard level : 0.5V rms
	0	0	0	(right)	Output impedence : Less than 1kohm*
2	0	0	0	Audio output B (right)	Standard level : 0.5V rms Output impedence : More than 10kohm*
3	0	0	0	Audio output A (left)	Standard level : 0.5V rms Output impedence : Less than 1kohm*
4	0	0	0	Ground (audio)	
5	0	0	0	Ground (blue)	
6	0	0	0	Audio input A (left)	Standard level : 0.5V rms Output impedence : More than 10kohm*
7	0	•	•	Blue input	0.7 +/- 3dB, 75 ohms positive
8	0	0	0	Function select (AV control)	High state (9.5-12V) : Part mode Low state (0-2V) : TV mode Input impedence : More than 10K ohms Input capacitance : Less than 2nF
9	0	0	0	Ground (green)	
10	0	0	0	Open	
11	0	•	•	Green	Green signal : 0.7 +/- 3dB, 75 ohms, positive
12	0	0	0	Open	
13	0	0	0	Ground (red)	
14	0	0	0	Ground (blanking)	
<u></u>	0	-	-	Red input	0.7 +/- 3dB, 75 ohms, positive
15	-	0	0	(S signal Chroma input)	0.3 +/- 3dB, 75 ohms, positive
16	0	•	•	Blanking input (Ys signal)	High state (1-3V) Low state (0-0.4V) Input impedence : 75 ohms
17	0	0	0	Ground (video output)	
18	0	0	0	Ground (video input)	
19	0	0	0	Video output	1V +/- 3dB, 75ohms, positive sync 0.3V (-3+10dB)
00	0	-	-	Video input	1V +/- 3dB, 75ohms, positive sync 0.3V (-3+10dB)
20	-	0	0	Video input Y (S signal)	1V +/- 3dB, 75ohms, positive sync 0.3V (-3+10dB)
21	0	0	0	Common ground (plug, shield)	

O Connected

Not Connected (open) \* at 20Hz - 20kHz

Pin No.	Signal	Signal Level
1	Ground	
2	Ground	
3	Y (S signal) input	1V ± 3dB 75 ohm, positive Sync. 0.3V -3 + 10dB
4	C (S signal) input	0.3V ± 3dB 75 ohm, positive Sync.



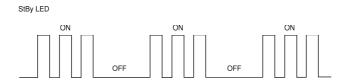
### **AE-5 SELF DIAGNOSTIC SOFTWARE**

The identification of errors within the AE-5 chassis is triggered in one of two ways: - 1: Busy or 2: Device failure to respond to IIC. In the event of one of these situations arising the software will first try to release the bus if busy (Failure to do so will report with continuous flashing LED) and then communicate with each device in turn to establish if a device is faulty. If a device is found to be faulty the relevant device number will be displayed through the LED (Series of flashes which must be counted) See table 1., non fatal errors are reported using this method.

Diagnostic Item Description	No of times Standby LED Flashes	Probable cause Location	Detected Symptoms
Power does not turn on	Does not light	Power cord is not plugged in Fuse is burned out	Power does not come on No power is supplied to the TV AC power supply is faulty
+B Overcurrent (OCP)	2 times	H.OUT (Q6803/6804) is shorted. (D Board) Linearity FET (Q6806) is shorted. (D Board) IC6604 Power IC is shorted. (D Board)	Power does not come on  Load on power line has shorted
Vertical Deflection stopped	4 times	+15V is not supplied R6835 open (D Board) -15V is not supplied R6834 open (D Board) IC6700 is shorted (D Board)	Vertical deflection pulse has stopped Power line has shorted

ERROR	LED ERROR COUNT
No error	00
Not allowed (may be confused with Sircs response flash!)	01
Over Current Protection	02
Over Voltage Protection	03
Vertical Protection	04
AKB	05
H - Protection	06
Speaker Protection	07
General IIC Line 0 error	08
MEGATEXT	09
NVM	10
Main colour decoder	11
Feature Box	12
D/A converter	13
Backend	14
Multi sound processor	15
Auto Wide	16
External RAM	17

### Flash Timing Example : e.g. error number 3



### **ERROR DETECTION MONITOR**

Device acknowledge is used to check IIC errors. Device acknowledge is checked by sending an IIC start sequence during CRT power on. Each device is checked three times, if there is no acknowledge after every attempt, it will be regarded as an error.

There are three steps to check errors

- 1. IIC line 0
  - If all devices except the NVM are errors, IIC line 0 error is displayed
- 2. Board check
  - If all devices mounted on one board have errors, board error is displayed
- 3. Each device check
  - If IIC line error and board error are not detected then the device with an error is displayed

The detected errors can be displayed as follows:

- 1. Error Monitor Menu
- 2. Error Reader

### 1. ERROR MONITOR MENU

The error monitor menu is displayed by selecting TT33. The following menu will be displayed:

# ERROR MONITOR Operating Time: 930360h 15h Saved Errors: 1. 100h = A-Board 2. 401h = BP-B CXD2069 MID 3. 704h = J-B TDA9320 Main Col Dec 4. 000h = no error occured 5. 000h = no error occured Actual Error: New error code sequence is starting Ignore Errors: [off]

### 2. ERROR READER DISPLAY

The error reader display is connected to the service connector to read actual error codes. The part number for the error reader display is S-188-900-10. Once an error has been detected it will then be displayed on the two digit error reader. The errors displayed refer to the following table:

	Send Data to	Error Reader		
Error Code	Data high	Data Low	Error type	Function
00 00h	-	f0h	no device	
Gen.IIC Error			-	•
00 01h	f0h	01h	IIC 0 line	
00 02h	f0h	02h	IIC 1 line	not used
Board Error			-	1
01 00h	f1h	00h	A Board	
02 00h	f2h	00h	B1 Board	
03 00h	f3h	00h	B2 Board	
04 00h	f4h	00h	BP Board	
05 00h	f5h	00h	D1 Board	
06 00h	f6h	00h	E Board	
07 00h	f7h	00h	J Board	
Device Error		<u> </u>		1
A Board				
01 01h	f1h	01h	CXA1875	Port Expander
01 02h	f1h	02h	TU1326	Main Tuner
01 03h	f1h	03h	TU1350	Sub Tuner
B1 Board				1
02 01h	f2h	01h	P83C654	Feature Box
02 02h	f2h	02h	SDA9280	D/A Converter
B2 Board				
03 01h	f3h	01h	SAA4977	Basic
03 02h	f3h	02h	SAA4950	Memory
BP Board				1
04 01h	f4h	01h	CXD2069	MID
D1 Board				1
05 01h	f5h	01h	CXA8070	Dynamic Conv.
05 02h	f5h	02h	CXA1875	Port Expander
E Board				1
06 01h	f6h	01h	CXD2100	Backend
J Board				
07 01h	f7h	01h	CXD2057	Auto Wide
07 02h	f7h	02h	SDA9288	PIP
07 03h	f7h	03h	TDA9320	Sub Colour
07 04h	f7h	04h	TDA9320	Main Colour
07 05h	f7h	05h	CXA1875	Sub Sound
07 06h	f7h	06h	TDA7309	HP Amp
07 07h	f7h	07h	TEA6422DT	Audio SW
07 08h	f7h	08h	MSP3410D	Sound Proc
07 09h	f7h	09h	TC9337F	Sound DSP

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### CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR THE CARBON PAINTED ON THE CRT, AFTER REMOVAL OF THE ANODE CAP

### WARNING!!

AN ISOLATING TRANSFORMER SHOULD BE USED DURING ANY SERVICE WORK TO AVOID POSSIBLE SHOCK HAZARD DUE TO LIVE CHASSIS. THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE POWER LINE.

### SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARKED A ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

### ATTENTION

APRES AVOIR DECONNECTE LE CAP DE'LANODE, COURT-CIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

### ATTENTION !!

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHÁSSIS SOUS TENTION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÈ LORS DE TOUT DÈPANNAGE. LE CHÁSSIS DE CE RÈCEPTEUR EST DIRECTMENT RACCORDÈ Á L'ALIMENTATION SECTEUR.

### ATTENTION AUX COMPOSANTS RELATIFS Á LA SÈCURITÈ !!

LES COMPOSANTS IDENTIFIÈS PAR UNE TRAME ET PAR UNE MARQUE & SUR LES SCHÈMAS DE PRINCIPE, LES VUES EXPLOSÈES ET LES LISTES DE PIECES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÈCURITÈ DU FONCTIONNEMENT, NE LES REMPLACER QUE PAR DES COMPSANTS SONY DONT LE NUMÈRO DE PIÈCE EST INDIQUÈ DANS LE PRÈSENT MANUEL OU DANS DES SUPPLÈMENTS PUBLIÈS PAR SONY.

This section briefly describes the buttens and controls on the TV set and the Remote Control.

Open the flaps at the front and back of his Instruction Manual for detailed illustrations.

For more information refer to the page numbers given in the overview.

Overview

### Remote Control

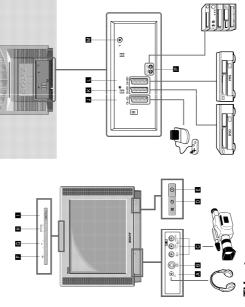
Symbol    171//¢    171//	See pag
	TV: standby mode on/off
	TV: on-screen display
	Selecting of input source
	PIP: Swapping the screens
	PIP: Selecting the source
	PIP: Switching on and off
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0 8	TV: Selecting of TV mode
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VTR 1 2 3 4 MDP	MDP Video equipment selector  III Buttons for VCR operation

### **SECTION 1** GENERAL

The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.

### TV-set - front and top

Symbol	lool	Description	See pa
⋖	C	Headphone jack	
m	<b>€</b> ®3	S-video input jack	:
ပ	는 3, 는 3	Phono video/audio inputs	:
Ω	Ð	Indicator for Standby mode	:
Ш	$\Theta$	Power switch	:
п	P	Selecting of input source	:
	1	Volume control	:
==	PROGR +/-	Channel selection up- and downwards	:
=	CONTROL	Control panel: Switching on/off	:



rear
- 1
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18	Symbol	Description
,		
Ð	<b>■</b> ⊕1/=1	21-pin Eure connector (Scart)
¥	⊕2/⊕2	21-pin Euro connector (Scart)
	(→3/-@3	21-pin Euro connector (Scart)
Σ	⊨	Aerial socket 30
Z	Q L/G/S/I	Audio phono jacks46

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Resetting of picture setting

\* \*

# First Time Operation

The following chapter contains all the steps necessary when first installing your TV and the basic TV functions.

### Step 1 Installation

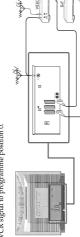
### A Connecting the TV Set

- Connect the TV set to the mains socke: (220-240 V. AC, 50 Hz).
   Connect a conventional aerial cable to the socket marked Tr M on the rear of the TV set.
- Connect your Satellite Receiver to one of the Scart connectors J K L of the TV set.

2b

## When connecting a VCR to your TV set:

We recommend that you use the preset function Manual Programme Preset (page 33) to tune in the VCR signal to programme position  $\boldsymbol{0}.$ 



# B Inserting the Batteries into the Remote Control

Make sure to insert the batteries using the correct polarities.

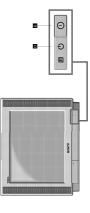
Dispose of exhausted batteries according to your local regulations.



## C Switching on the TV Set

- Press the switch ① 

   at the front of the TV set.
- $\blacksquare$  If the standby mode indicator  $\circlearrowleft$   $\blacksquare$  on the TV is lit, press TV I/ $\circlearrowleft$   $\blacksquare$  on the Remote Control to switch on the TV set.



# Step 2 Basic Presetting

### A The Menu System

Use the following buttons on the Remote Control to operate the menu system: Your TV uses an on-screen menu system to guide you through the operations.

- Press MENU (20 to switch the menu on and off.
- Use  $\blacktriangleleft$ ,  $\blacktriangleright$ ,  $\blacktriangle$ ,  $\blacktriangledown$  of the joystick 0 to select within the menu system.
- Press OK to store.

Lapage 15

# B Selecting Language and Country

- Press the MENU @ button.

  The menu Language/Country appears on the screen.
- - The menus appear in the selected language. Press OK **(D)**
- 3 Push the joystick **(** to ▼ to select Country. Push the joystick **(** to ▶.

Select: ▲▼ Enter: ▶

- Select the country in which you will operate the TV set using ♥ or ▲.
   Confirm by pressing OK ●.
   The menu Auto Tuning appears.

# C Automatic Tuning In of Channels

- Push the joystick (10 to 1-).
   After all available channels are stored, the TV goes back to the programme position with which you started the automatic tuning. Your TV is now ready
- a If you wish to change the sequence of the stored channels, go to Sorting Programme Positions in Advanced Presetting.
- If you need to change or repeat the tuning afterwards (e.g. when you move house) : select the menu Auto Tuning in the Set Up  $\boxminus$  menu.



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First Time Operation





First Time Operation 30

# Advanced Operation

### **Advanced Presetting**

# Sorting of Programme Positions

- $\hfill \hfill \hfill$ 
  - Press MENU. Select the symbol ⊕ using ♥. Push to ▶.
- Select Programme Sorting using  $\P$ . Push to  $\P$  to enter.
- Select the programme position of the channel you wish to sort using  $\Delta$  or  $\nabla$  . Push to ▶ to enter.
- Move the channel to the new programme position using  $\Delta$  or  $\nabla$  . Store by pressing OK.
  - The channel is now at the new position. The other programme positions

Select: ▲▼ Ente:▶ Programma Sortera

A 400

- move accordingly.

  - To sort other programme positions repeat steps 3 to 4. Press MENU to return to the normal TV screen.

# Manual Tuning In of Channels

- Use this function to preset channels or a video input source one by one to programme positions of your choice.

  - Select Installation using  $\P$ . Push to  $\blacktriangleright$  to enter. Select Manual Programme Preset using  $\P$ . Push to  $\blacktriangleright$  to enter. Press MENU. Select the symbol ⊕ using ▼. Push to ▶.
- Select the programme position by pushing to ▲ or ▼. Push twice to ▶.

Select: ▲▼ Enter:▶

- 3 Select the programme position bThe column SYS is highlighted.
  - Select the TV system using ▲ or ▼. Push to ▶ to enter.
- D/K for eastern European countries, EXT for a video input source (please go to step 5c after selecting EXT)

  The column SEARCH is highlighted. Available TV systems are B/G for western European countries,
- You have the choice between C for a terrestrial channel, S for a cable channel, 5 Select your method for the channel tuning using ▲ or ▼. Push to ▶ to enter. You have the current F for direct frequency input.
  - a Direct Channel Input S, C or F
- For channel numbers input a two digit number, for the channel frequency a
- Select the two or three digits by using the number buttons 0 to 9. To start the search and to store the channel, press OK.
  - To preset other channels repeat steps 3 to 5a.
- Channel search (SEARCH)
- Use Search if you do not know the channel number or frequency
- Store the channel by pressing OK or continue the search by pushing again to  $\P$ . To search for other channels repeat steps 3 to 5b. Start the search for the next available channel by pushing to ▼.
- For video input sources (EXT)
- Select the Video Input source using ▲ or ▼.
  - Store your selection by pressing OK.
- To allocate other sources repeat steps 3 to 5c.
- Press MENU to return to the normal TV screen.

# Advanced Operation

# **Advanced Presetting**

Sorting of Programme Positions

# (I) After having used Automatic Tuning of channels you may wish to rearrange the order of the channels.

- Press MENU. Select the symbol \(\overline{\ov
- Select Programme Sorting using ▼. Push to ▶ to enter.

Programme Sorting

Select: ▲▼ Enter: ▶

Programme Sorting Service Next Yeary Dolby Surroand Set an

Programme Sorting

Select: ▲▼ Enter: ▶

Programme Sorting

- Select the programme position of the channel you wish to sort using ▲ or ▼. Push to ▶ to enter.
- Move the channel to the new programme position using  $\triangle$  or  $\nabla$ . Store by pressing OK.
  - The channel is now at the new position. The other programme positions move accordingly. ţ

Programme Sorting

Select: A♥ Enter: ▶

- To sort other programme positions repeat steps 3 to 4.
- Press MENU to return to the normal TV screen.

# Manual Tuning In of Channels

- Use this function to preset channels or a video input source one by one to programme positions of your choice
- Select Installation using  $\P$ . Push to  $\blacktriangleright$  to enter. Select Manual Programme Preset using  $\P$ . Push to  $\blacktriangleright$  to enter.

Press MENU. Select the symbol ⊕ using ♥. Push to ▶.

- Select the programme position by pushing to ▲ or ▼. Push twice to ▶. The column SYS is highlighted. ຼ 🕽

Select: ▲▼ Enter. ▶

- Available TV systems are B/G for western European countries, D/K for eastern European countries, EYI for a video input source (please go to step Sc after selecting EXI)

  The column SEARCH is highlighted. Select the TV system using ▲ or ▼. Push to ▶ to enter.

Select: ▲▼ Ente:▶

You have the choice between C for a terrestrial channel, S for a cable channel, Select your method for the channel tuning using  $\triangle$  or  $\nabla$ . Push to  $\triangleright$  to enter. <sub>2</sub>

Select: ▲▼ Enter:▶

- F for direct frequency input.
- For channel numbers input a two digit number, for the channel frequency a a Direct Channel Input - S, C or F

  For channel numbers input a two
  three dicit number three digit number.
- - Select the two or three digits by using the number buttons 0 to 9. To start the search and to store the channel, press OK.
    - To preset other channels repeat steps 3 to 5a.
- Use Search if you do not know the channel number or frequency Start the search for the next available channel by pushing to ▼. b Channel search (SEARCH)

  Use Search if you do not kno
  Start the search for the next a
- Store the channel by pressing OK or continue the search by pushing again to V.
  - To search for other channels repeat steps 3 to 5b. For video input sources (EXT)
    - Select the Video Input source using ▲ or ▼.
      - Store your selection by pressing OK.
- To allocate other sources repeat steps 3 to 5c.
- Press MENU to return to the normal TV screen.

### First Time Operation

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### Advanced Presetting

## Captioning a Station Name

You can, however, individually name a channel or a video ir.put source. During presetting the channels are usually labelled automatically.

- Press MENU. Select the symbol 🖹 using ♥. Push to ▶.
- Select Manual Programme Preset using ▼. Push to ▶ to enter. Select Installation using  $\nabla$ . Push to  $\triangleright$  to enter.

7 က

- Select the programme position of the channel or the video source you wish to label by pushing to  $\P$  or  $\mathbb{A}$ . Push repeatedly to  $\mathbb{P}$  until the first element of the position LABEL is highlighted.
- Select a number, a letter, + or a blank using ▲ or ▼. Push to ▶ to confirm. Select the other four characters in the same way.
  - Store your selection by pressing OK.
- To label other channels or video sources repeat steps 3 to 5.
  - Press MENU to return to the normal TV screen.

# Skipping of Programme Positions

In case of 100 programme positions there may be unused positions, which you can skip in the menu Manual Programme Preset. When changing channels with the PROGR +/- buttons they do then not appear. You can, however, still select them using the number buttons.

- Press MENU. Select the symbol \(\overline{\operation}\) using \(\psi\). Push to \(\psi\).
- Select Manual Programme Preset using ▼. Push to ▶ to enter. Select Installation using ▼. Push to ▶ to enter.
- Select the programme position you wish to skip by pushing to  $\blacktriangle$  or  $\blacktriangledown.$

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- Push to ▶ to enter.

  The column SKIP is highlighted.
- Select ON using ▼.
- Store by pressing OK.
- To skip other programme positions repeat steps 3 to 5.









### М 4a

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Push to  $\triangle$  or  $\nabla$  to adjust the volume level (range -7 to +7) of the channel. Store by pressing OK.

Repeat steps 3 and 4a if you wish to adjust the volume level of other channels.

AFT

р

Push to  $\blacktriangledown$  to select OFF. Push to  $\blacktriangleright$  to enter Manual Fine Tuning. Push to  $\blacktriangle$  or  $\blacktriangledown$  to fine tune the channel (range -15 to +15). Store by pressing OK. Repeat steps 3 and 4b if you wish to fine tune other channels

Push to  $\blacktriangle$  or  $\blacktriangledown$  to select AVI (furo AV socket I) or AV2 (furo AV socket 2) as output for the video source on this programme position. Store by pressing OK. Repeat steps 3 and 4c if you wish to preset the AV output of other video sources.

Should you use Auto Tuning afterwards, this setting will  $\leqslant$ 

Press MENU to return to the normal TV screen.

### Advanced Presetting

# Using of Further Programme Preset

(I) Using the menu Further Programme Preset you can

a) individually adjust the volume level of each channel.

c) preset the AV output for programme positions of those channels with scrambled signals (e.g. from a Pay TV decoder). In this way a connected VCR records the unscrambled signal. b) improve the quality of a weak channel (picture or sound distortions) with manual fine tuning.

Press MENU. Select the symbol \(\overline{\ov

Select: ▲▼ Enter: ▶

Select Installation using ▼. Push to ▶ to enter. Select Further Programme Preset Select the programme position of the desired channel by pushing to ▲ or ▼. using ♥. Push to ▶ to enter.

Push repeatedly to  $\blacktriangleright$  to select: VOL (Volume Ofset), AFT (Automatic Fine Tuning) or DECODER. The selected item changes colour.

Select: ▲▼ Enter:▶





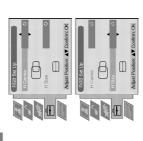


Press MENU to return to the normal TV screen.

### Advanced Presetting

### **Adjusting the Picture Geometry** for an RĞB Source

- When connecting an RGB source such as a Sony playstation you may need to readjust the picture geometry.
- Select the connected RGB source by pressing repeatedly.
  - Press MENU. Select the symbol  $\boxplus$  using  $\blacktriangledown$  . Push to  $\blacktriangleright$  .
- Select Installation using ▼. Push to ▶ to enter. Select RGB Set Up using ▼. Push to ▶ to enter.
- Select H Size using ▼. Push to ▶ to enter. Adjust the horizontal coordinates Select H Centre by pushing to  $\blacktriangleright$  . Adjust the centre of the picture (range from -5 to +5) using  $\blacktriangle$  or  $\blacktriangledown$  . Store by pressing OK. (range from -5 to +5) using ▲ or ▼. Store by pressing OK.
  - Press MENU to return to the normal TV screen.



# Inputting Your Personal ID

Advanced Presetting

- (I) You can programme your TV with a safety code, so that you can be traced if your TV is stolen and recovered. This code can only be input once! Make sure to write it down in this Instruction Manual.
- Press MENU. Select the symbol \(\overline{\ov
- Select Installation using  $\Psi$ . Push to  $\blacktriangleright$  to enter. Select Personal ID using  $\blacktriangledown$ . Push to ▶ to enter.
- Select the first of a total of 11 characters (letter, number, + or a blank) by 3a
  - Push to ▶ to go to the next character. Ф
    - Repeat a and b for all characters. Store by pressing OK.
- Press MENU to return to the normal TV screen. 4



# Presetting and Labelling of Input Sources

- Using AV Preset you can select the automatic format function and label an input
- Press MENU. Select the symbol ⊕ using ▼. Push to ▶.
- Select AV Preset using ▼. Push to ▶ to enter.
- Select the desired AV input (AV 1, 2 or 3) using  $\blacktriangle$  or  $\blacktriangledown$  . Push to  $\blacktriangleright$  enter.
- After each step you have the choice between memorizing (press OK) or going to the next item (week to be) the next item (push to ▶).
- For automatic format selection of the AV input:

Push to ▶ to select Auto Format. Select On or Off using  $\triangle$  or  $\nabla$ .

- To label the source:
- Select the first character using  $\blacktriangle$  or  $\blacktriangledown$  . Push to  $\blacktriangleright$  to confirm. Push to ▶ to select Label.
  - Repeat step b to select the other 4 characters. Store by pressing OK.
    - Repeat steps 3 to 5 for the other AV inputs.
      - Selecting the AV3 Input Source:
- In case of AV3 you have the choice between the front AV3 sockets **B C** or the
- Push to ▼ to select AV3 Input. Push to ▶ to enter. Select Front or Rear using ▲ or ▼.



Press MENU to return to the normal TV screen. Store by pressing OK.

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Advanced Operation

Select Installation using ▼. Push to ▶ to enter. Select Picture Rotation using ▼.

Press MENU. Select the symbol \ □ using \ . Push to \ \ .

Adjust the Picture Rotation (adjusting range -4 to +4) by pushing to  $\blacktriangle$  or  $\blacktriangledown.$ 

Press MENU to return to the normal TV picture.

Store by pressing OK.

Push to ▶ to enter.

 $\bigoplus$  Because of the earth magnetism the picture might slant. In this case you can readjust the picture.

Adjusting the Picture Rotation

# Advanced TV operation

# Adjusting Picture and Sound

Picture and sound are adjusted at the factory. You can, however, adjust them individually.

Press MENU.
 Select the symbol [L] for Picture or ♠ for Sound using A or ♥.
 Push to ▶ to enter.
 The menu Picture or Sound Control is displayed.

2 Select the desired item using ▲ or ▼. Push to ▶ to enter.

3 Adjust the selected item using △, ♥, ▶ and △. Press OK to store.

(1) Refer to the tables on this and the following page for more information.

5 Press MENU to return to the normal TV screen. 4 Repeat steps 2 and 3 to adjust other items.

### Picture Control

	Effect/Operation	
Picture Mode	▼ Personal (for individual settings)     Movie (for movie broadcasts)     ▲ Live (for live broadcasts)	(gs)
Contrast	Less   More	
Brightness*	Darker ◀ ▶ Brighter	
Colour*	Less	
Hue**	Greenish ◀ ► Reddish	
Sharpness*	Softer ◆ ► Sharper	
Reset	Resets picture to the factory preset levels	levels
AI (Artificial Intelligence)	Off: normal     On: Automatic ontimization of contrast laxel	f contract layed
(201291111111111111111111111111111111111	according to the TV signal	
Noise Reduction	▼ Off: Normal	
	▲ On: Reduces picture noise in case of a weak	case of a weak
	broadcasting signal	

\* Only if Personal is selected in Picture Mode \*\* Only available for NTSC colour signal (e.g. US video tapes)

### Advanced TV operation

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3	2	
ì	3	
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ltem	Effect/Operation	Personal
Equaliser Mode	Select between the following sound settings  A Personal Vocal lazz Rock Pop Pat (fixed setting, cannot be adjusted)	Equation (Control of Control of C
Equaliser adjustment	<ul> <li>You can adjust the mode selected in Equaliser mode by cutting and boosting of 5 selected frequency bands.</li> <li>A Only the changes made in Personal can be stored, the others return to factory setting.</li> <li>Select the desired bar using ▶ or ◄, adjust using ▲ and Ψ Press OK to store.</li> </ul>	Solect Vode: A Continue CK
Balance	<ul><li>▲ More left</li><li>▼ More right</li></ul>	Baiance Ammin
Loudness	► Off: Normal     On: For music broadcasts	keudness
Space		Space
Auto Volume Control	■ On: volume level of the channels will stay the same independent of the broadcast signal (e.g., in case of advertisements)     ■ Off: volume level changes according to the broadcast signal	Auto Vel. Control
Dual Sound	For a bilingual broadcast:     A for channel 1	Dual Sound
Headphones C. Volume C. Dual Sound	Less ◆ ► More  • For a bilingual broadcast: • Af or channel 1 ◆ ► B for channel 2 • For a stereo broadcast: • Stereo ◆ ► Mono • PIP • When PIP is switched on, you can additionally • Select the PIP sound for the headphones	(Their Seart

### Advanced TV operation

## Using the Features Menu

- 1 Press MENU. Select the symbol ★ using ▼. Push to ▶.
- Select the desired menu item using ▼. Push to ▶ to enter.
- Select the desired setting using ▲ or ▼.

Store by pressing OK.

5 Press MENU to return to the normal TV screen.

### Features

reatures	
ltem	Effect/Operation
Auto Format	▼ On: Automatic selection of the screen format ► Off: Normal mode
PIP Position	See next page for details
Sleep Timer	① You can select a time period after which the TV switches itself into standby mode
	▼ Off 10 min
	20 min.
	.: ► 90 min.
Parental Lock	▼ Off: Normal mode
	Un: 1V can only be switched on out of standby-mode using the Remote Commander, the buttors on the TV do not work.
AV2 Source	You can select the source to be cutput from the Scart connector (\$\Phi 2/\cdot 3\Eart this way you can record from this codet while untrhing another
	source.
	▼ TV audio/video signal from the aerial TAV1 audio/video signal from Scart 1
	AV2 audio/video signal from Scart 2  AV3 audio/video signal from front or rear connectors



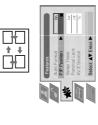












### Advanced TV operation

## Using Picture-in-Picture

Picture-in-Picture (PIP) lets you display a second, small screen within the main TV picture. In this way you can watch the video output from any connected equipment, e.g., from a VCR, while watching TV.

# Switching PIP on and off

Main screen

- The small screen is displayed.
- The source of the small screen is the one last used when the TV was on.
   Press △ ✓ □ ② again to switch PIP off.

### Selecting a PIP source

- 1 Press ↑ 6.

   The symbol ↑ is displayed in the bottom left-hand corner of the screen.

- 2 Press ee sepeatedly until the desired source appears.

- (D) You can select between TV, AVI, AV2, YC2, AV3 and YC3 are If no video source (e.g. VCR or Camera) is connected, the PIP will be noisy.

  A You cannot display an RCB source in the PIP.

### Swapping the screens • Press ⊕/② ④. ■ The two screens are swapped.

0/0

- Changing channels if the TV picture is in the PIP
- First press †, then the respective number buttons. Changing the PIP position
- There are four different positions of the small screen within the main screen. Select the PIP position in the Features menu.  $\Theta$

- Press MENU. Select the symbol  $\frac{\partial}{\partial t}$  using  $\nabla$ . Push to  $\triangleright$  to enter. Select PIP position by pushing to  $\nabla$ . Push to  $\triangleright$  to enter. Select the desired position using  $\nabla$  or  $\triangle$ . Press OK to select. Press MENU to return to the normal IV screen.

Advanced Operation

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Most TV channels broadcast information via teletext. The index page of the teletext service (usually page 100) gives you information on how to use their service. Make sure to use a TV channel with a strong signal, otherwise there may be Teletext errors.

### Switching Teletext on and off

- Select the TV channel which carries the teletext service you want to view.
  - 2a Press (☐ ❷ once to switch teletext on.

    ► The teletext meru is displayed.
- b Press (E) twice for Mix mode.
   c The TV broadcast and the Teletext display are overlapped.
  - 3 Press □ ② or press □ a third time to switch teletext off.

### Selecting a Teletext Page

### Direct Page Selection

- Input the three digits of the page number using the number buttons Q.
  - If you have made a mistake:

    Type in any three digits, then reenter the correct page number.

### Page Catching

- Select a teletext page which has several page numbers on it (e.g., the index page).
  - Press OK **①**.
- Page Catching is displayed at the top of the page
- 3 Select the desired page number using ▲ or ▼ ⊕ and press OK.
- The requested page is displayed after some seconds.

### 

- Selecting the index page
- Press (± Ø).

### Selecting a subpage

- A teletext page may consist out of several subpages. In this case an information line is displayed, showing the number of the subpages.
   Select the mode by pushing to ▲ Select the subpage by using ▲ or ▼.

### Freezing a Teletext subpage

- 1 Press ⊕ or ⊕ or ⊕ The symbol ⊕ ⊕ is displayed and the subpage is not updated.
  - 2 Press to resume normal teletext reception.

### Using Fastext\*

- \*depending on availability of service
- Fastext lets you access pages with one button stroke. When Fastext is broadcast, a colour-coded menu appears at the bottom of the screen. The colours of this menu correspond to the red, green, yellow and blue buttons on the Remote Control ②, ⑥, ⑥, ⑥, ⑥.
  - Press the coloured button which corresponds to the colour in the colour-coded menu.

### **Teletext**

### Using the Teletext Menu

- This TV set has a menu-guided teletext system. When teletext is switched on you can use the joystick buttons to operate the teletext menu.
- Select the menu functions as follows:
- The Teletext menu is superimposed on the teletext display. Press MENU @.
- Select the teletext function using  $\triangle$  or  $\nabla$  (0). Push to  $\triangleright$  to enter.
- ① For convenient reading of a Teletext page you can enlarge it.
  ► After having selected the function, a sub menu Top ▲ Bottom ▼ Full OK Top/Bottom/Full

Select: ▲▼ Enter:▶

 Push to ▲ to enlarge the upper half of the screen, push to ▼ to enlarge the lower half. Press OK to resume the normal size.

Top: ▲ Bottom: ▼ Full: OK

### **Text Clear**

- After having selected the function, you can watch a TV channel while waiting for a requested Teletext page. As soon as the page is available, the symbol changes colour.
- Press 

  to view the page.

### Reveal

- Some teletext pages contain hidden in:ormation (e.g., for a quiz), which you can reveal.
  - After having selected the function, the hidden information appears.

### Time Page\*

\*depending on availability of service

- You can call up a time-coded page such as an alarm page at a time specified by your
- After having selected the function a sub menu is displayed.
  - Select On using  $\blacktriangle$  or  $\blacktriangledown.$  Push to  $\blacktriangleright$  to enter.
- Enter the three digits of the desired page using the number buttons **Q**. Push to ▶ after each digit.
  - Enter the four digits of the desired time using the number buttons  ${\bf Q}.$ Push to ▶ after each digit.
- The time is displayed in the top left-handed corner of the screen. At the requested time the page is displayed.







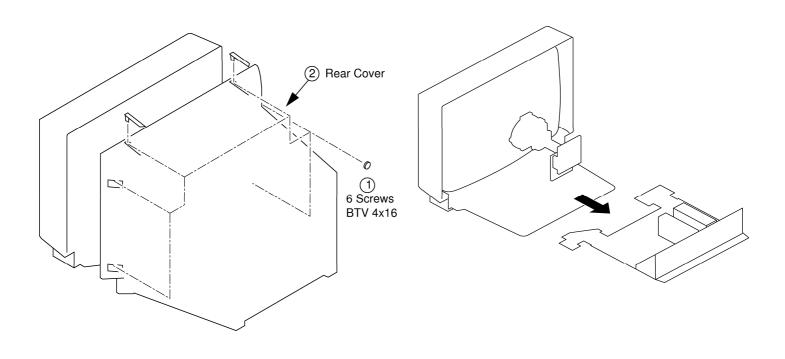
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Advanced Operation

### SECTION 2 DISASSEMBLY

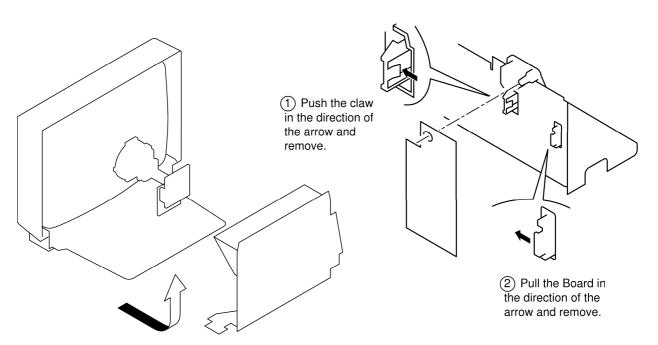
### 2-1. REAR COVER REMOVAL

### 2-2. CHASSIS ASSY REMOVAL



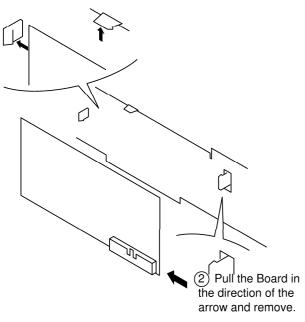
### 2-3. SERVICE POSITION

### 2-4. U BOARD REMOVAL

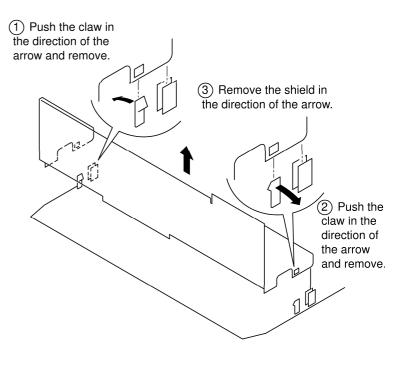


### 2-5. J BOARD REMOVAL

### 1 Push the claw in the direction of the arrow and remove.



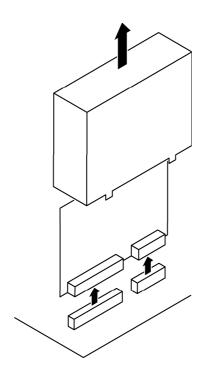
### 2-6. J SHIELD REMOVAL



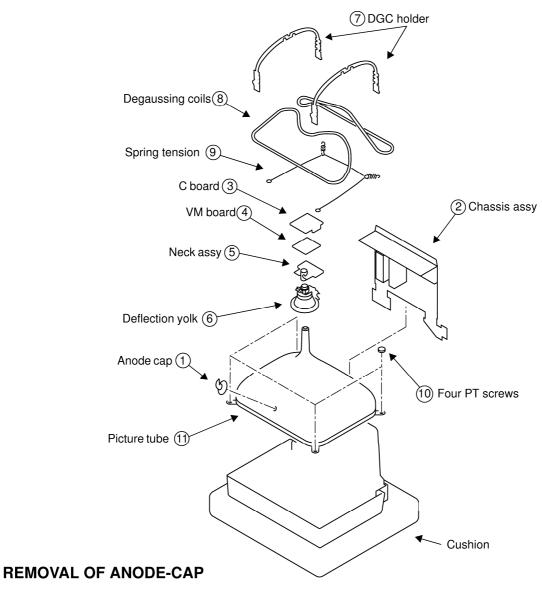
### 2-7. B1 BOARD REMOVAL

### **NOTE**

All other boards are removed in a similar manner to those shown

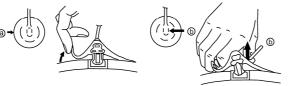


### 2-8. PICTURE TUBE REMOVAL



Note: Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon paint on the CRT, after removing the anode.

### REMOVING PROCEDURES.



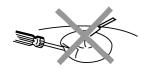
- 1 Turn up one side of the rubber cap in the direction indicated by the arrow (a)
- ② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ⓑ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turni
- Anode button

separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling it up in the direction of the arrow ©

### **HOW TO HANDLE THE ANODE-CAP**

- To prevent damaging the surface of the anode-cap do not use sharp materials. Do not apply too great a pressure on the rubber, as this may cause damage to the anode connector.
- A metal fitting called a shatter hook terminal is fitted inside the rubber cap. Do not turn the rubber foot over excessively this may cause damage if the shatter hook sticks out.





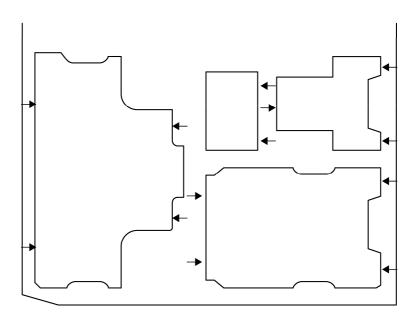
# REMOVAL AND REPLACEMENT OF THE MAIN-BRACKET **BOTTOM PLATES.**

# (1) REMOVING THE PLATES

In the event of servicing being required to the solder side of the D Board printed wiring board, the bottom plates fitted to the main chassis bracket require to be removed.

This is performed by cutting the gates with a sharp wire cutter at the locations

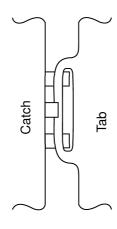
Only remove the necessary plate to gain access to the printed wiring board. Note: There are 4 plates fitted to the main bracket and secured by 4 gates. indicated by arrows.



### For safety reasons, on no account should the plates be removed and not refitted after servicing. $\triangleleft$

(2) **REFITTING THE PLATES**Because the plates differ in size it is important that the correct plates are refitted in their original location.

Please note that the plates need to be rotated 180 degrees from the cut position to allow the tabs to be fitted in the catch positions.



### SECTION 3 SET-UP ADJUSTMENTS

- When complete readjustment is necessary or a new picture tube is installed, carry out the following adjustments.
- Unless there are specific instructions to the contrary, carry out these adjustments with the rated power supply.
- Unless there are specific instructions to the contrary, set the controls and switches to the following settings:

Contrast ..... normal

Brightness ..... normal

Carry out the following adjustments in this order:

- 3-1. Beam Landing
- 3-2. Convergence
- 3-3. Focus
- 3-4. White balance

**Note:** Test equipment required

- Color bar/pattern generator.
- 2. Degausser.
- 3. Digital multimeter.
- 4. Oscilloscope.

### 3-1. BEAM LANDING

### **Preparation:**

- 1. In order to reduce the influence of geomagnetism on the set's picture tube, face it in an easterly or westerly direction.
- Switch on the set's power and degauss with the degausser.

### (1) Adjustment of Correction Magnet for Y-Splitting Axis

- 1. Input a crosshatch signal from the pattern generator.
- 2. Set the Picture control to minimum and confirm that the Brightness control is set to normal.
- 3. Position the neck assembly as indicated in Fig.3-2.
- 4. Move the deflection yolk as far forward as is possible.
- Adjust the upper and lower pin symmetrically by opening or closing the Y-splitting axis correction magnets located on the neck assembly.
- 6. Return the deflection yolk to its original position.

# Y-splitting axis correction magnet

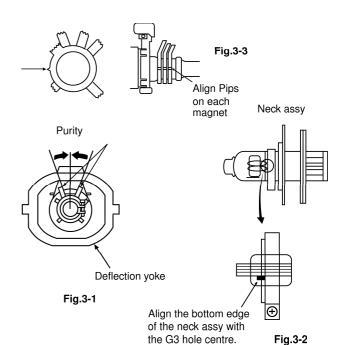
### Caution:

High voltages are present on the Deflection yolk terminals - take care when handling the Deflection yolk whilst carrying out adjustments.

### (2) Landing

**Note**: Before carrying out the following adjustments adjust the magnets as indicated below [See Fig.3-3].

- Input an all-white signal from the pattern generator.
   Maximize the picture setting and adjust the Brightness setting.
- 2. Rough-adjust the focus and horizontal convergence.
- 3. Loosen the deflection yolk screws and align the purity adjustment knob to its central position. [See Fig.3-1].
- 4. Switch from the all-white pattern to an all-green pattern.
- 5. Move the deflection yolk backwards and adjust with the purity magnet so that the green is at the centre and it aligns symmetrically. [See Fig.3-4].
- Move the deflection yolk forward and adjust so that the entire screen becomes green.
- 7. Switch the raster signal to red, then to blue and verify the landing condition.
- 8. When the position of the deflection yolk has been determined, fasten the deflection yolk with the screw.
- 9. If the beam does not land correctly in all the corners of the screen, use magnets to correct it. [See Fig.3-5].



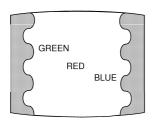


Fig.3-4

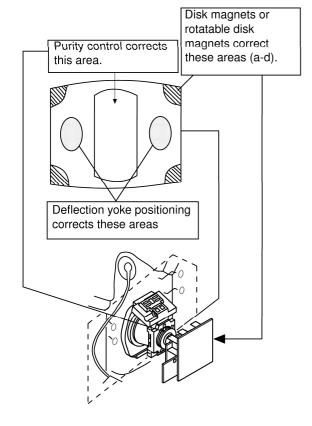
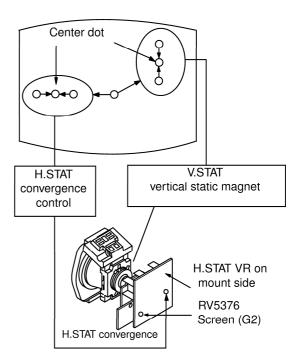


Fig. 3-5

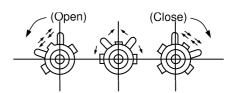
### 3-2. CONVERGENCE

### (1) Screen centre convergence [Static convergence]

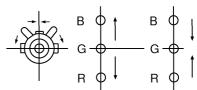
- 1. Input a dot signal from the pattern generator. Normalize the picture setting.
- [Moving horizontally], adjust the H.STAT control so that the horizontal red, green and blue dots coincide at the centre of the screen
- [Moving vertically], adjust the V.STAT magnet so that the vertical red, green and blue dots coincide at the centre of the screen.



 If the horizontal dots are unable to coincide with the variable range of the H.STAT convergence, adjust together with the V.STAT convergence while tracking.
 [Adjust the convergence by tilting the V.STAT convergence or by opening and closing the V.STAT convergence.]

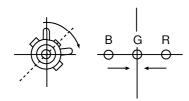


- Movement of the red, green and blue dots by tilting the V.STAT magnet and by opening or closing the V.STAT magnet.
- a). By opening or closing the V.STAT magnet, the red, green and blue dots move as indicated below.

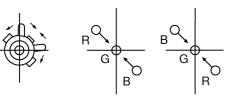


b). By rotating the V.STAT magnet counter clockwise, the red, green and blue dots move as indicated below.

c). By rotating the V.STAT magnet clockwise, the red, green and blue dots move in the direction indicated below.



d). By opening or closing the V.STAT magnet, the red, green and blue dots move in the direction indicated below.



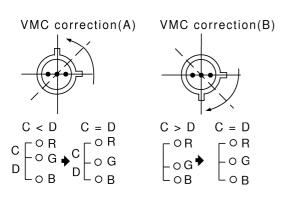
**Note:** If the blue dot does not coincide with the red and green points correct the points by using the BMC [Hexapole] magnet.

5. Correction for HMC [horizontal mis-convergence] and VMC [vertical mis-convergence] by using the BMC [Hexapole] magnet.

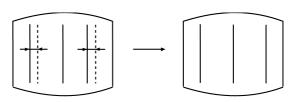
HMC correction(A)

a). HMC correction by BMC [Hexapole] magnet and movement of the electron beam.

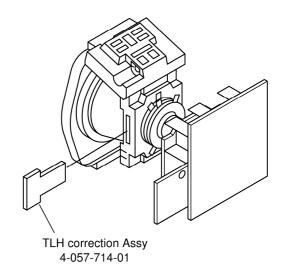
b). VMC correction by BMC [Hexapole] magnet and movement of the electron beam.



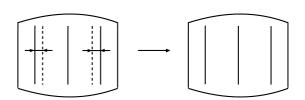
HAMP



 HTIL correction can be performed by adding a THL correction ASSY to the DY.



HTIL



### Layout of each control

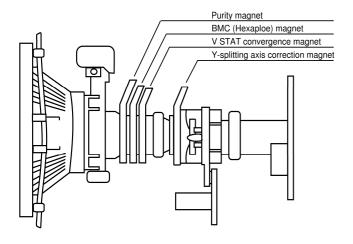
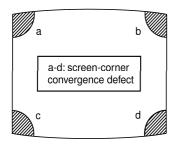
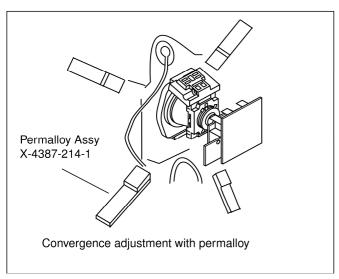


Fig 3-5

**Note:** If you are unable to adjust the corner convergence properly, this can be corrected with the use of permalloys.

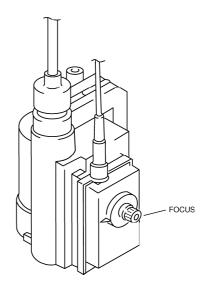






### **3-3. FOCUS**

- 1. Receive a television broadcast signal.
- Normalize the picture setting.
- Adjust the focus control located on the flyback transformer to obtain the best focus at the centre of the screen.
   Bring only the centre area of the screen into focus, the magenta-ring appears on the screen. In this case, adjust the focus to optimize the screen uniformly.



### 3-4. SCREEN (G2), WHITE BALANCE

[Adjustment in the service mode using the remote commander]

### G2 adjustment (RV5376)

- 1. Input a dot signal from the pattern generator.
- 2. Set the Picture, Brightness and Colour to minimum.
- Apply 175V DC from an external power supply to the R, G and B cathodes of the CRT.
- 4. Whilst watching the picture, adjust the G2 control RV5376 [SCREEN] located on the C Board to the point just before the flyback return lines disappear.

### White balance adjustment for TV mode

- 1. Input an all-white signal.
- 2. Enter into the Service Mode by pressing 'TEST', 'TEST' and 'MENU' 'MENU' on the Service Commander.
- 3. Select 'Backend' from the on screen menu display and press 'OK'.
- 4. The 'Backend' menu will appear on the screen.
- 5. Set the contrast to MAX.
- 6. Set the 'R DRIVE' to 41.
- 7. Adjust the 'G DRIVE' and 'B DRIVE' so that the white balance becomes optimum.
- 8. Press the 'OK' button to write the data for each item.
- 9. Set the contrast to MIN.
- 10. Set the 'R CUT-OFF' to 31.
- 11. Adjust the 'G CUT-OFF', and 'B CUT-OFF' with the left and right buttons on the remote commander so that the white balance becomes optimum.
- 12. Press the 'OK' button to write the data for each item.

		Backend			
No	Descr.	Def	Min	Max	Data
1	R-on	ON	OFF	ON	ON
2	G-on	ON	OFF	ON	ON
3	B-on	ON	OFF	ON	ON
4	D-col	OFF	OFF	ON	ON
5	Color-axis	2	0	3	2
6	Contrast	63	0	63	63
7	Limit-Luv	3	0	3	3
8	Hue	31	0	63	31
9	Colour	31	0	63	28
10	CTI -Level	2	0	3	2
11	Brightness	31	0	63	31
12	Gamma	2	0	3	2
13	Sharpness	31	0	63	44
14	LTI-Level	0	0	3	0
15	R-Drive	41	0	63	40
16	BLK-Bottom	0	0	3	0
17	G-Drive	41	0	63	38
18	ABL-TH	0	0	3	0
19	B-Drive	41	0	63	21
20	ABL-Mode	2	0	3	2
21	Sub Bright	31	0	63	32
22	VM-Level	2	0	3	2
23	R-Cutoff	31	0	63	41
24	Preover	2	0	3	2
25	G-Cutoff	31	0	63	45
26	DPIC-Level	2	0	3	2
27	B-Cutoff	31	0	63	48
28	DC-Tran	1	0	3	1
29	Sub-Cont	7	0	15	7
30	LRGB2-LvI	12	0	15	12
31	P-Abl	15	0	15	15
32	DL-Pass	OFF	OFF	ON	OFF
33	Sharp.Fo	ON	OFF	ON	ON
34	Aging-W	OFF	OFF	ON	OFF
35	Aging-B	OFF	OFF	ON	OFF
36	CB-offset1	7	0	15	7
37	CR-offset1	7	0	15	7
38	CB-offset2	7	0	15	7
39	CR-offset2	7	0	15	7
40	Sub Colour	0	-8	8	-1

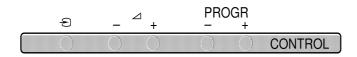
### SECTION 4 CIRCUIT ADJUSTMENTS

### 4-1. ELECTRICAL ADJUSTMENTS

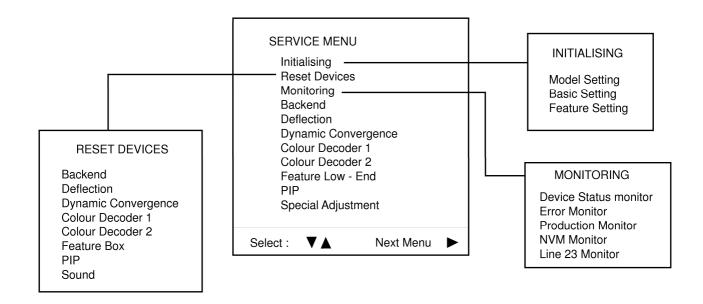
Service adjustments to this model can be performed using the supplied Remote Commander RM-891.

### **HOW TO ENTER INTO SERVICE MODE**

1. Turn on the main power switch of the set while pressing PROG + (plus) and PROG - (minus) buttons on the top panel.



- 2. "TT" will appear in the upper right corner of the screen.
- 3. Press the 'MENU' button twice on the remote commander to obtain the service menu on the screen.



- 4. Push the joystick up or down on the remote commander to select the adjustment item.
- 5. Push the right button to proceed to the next menu.
- 6. If the required adjustment item is 'Deflection', push the down button to move to 'Deflection'.
- 7. Push the joystick to the right to enter into 'Deflection'.
- 8. Change the data in order to comply with each standard.

### NOTE:

- · Before performing any adjustments assure that the correct model has been selected in the Model Setting menu.
- After carrying out the service adjustments, to prevent the customer accessing the Service Menu switch the TV set OFF and then ON.

	Model Setting
1	KV-29FX60A/D/E
2	KV-29FX60B
3	KV-29FX60U
4	KV-29FC60A/D/E
5	KV-29FC60B
6	KV-29FC60K
7	KV-29FC60R
8	KV-29FS60A/D/E
9	KV-29FS60B
10	KV-29FS60K
11	KV-29FS60R
12	KV-28/32FX60A/D/E
13	KV-28/32FX60B
14	KV-28/32FX60K
15	KV-28/32FX60R
16	KV-28/32FX60U
17	KV-29FS60A/D/E
18	KV-29FS60B

Fig.4-1

	Basic setting						
No	Dogor	Min	Max	Data			
	Descr.						
1	Sys.B/G	OFF	ON	ON			
2	Sys.D/K	OFF	ON	ON			
3	Sys.L	OFF	ON	ON			
4	Sys I (UK)	OFF	ON	OFF			
5	Sys I (IRL)	OFF	ON	OFF			
6	Russian sound	OFF	ON	OFF			
7	TXT Nod.option	1	4	3			
8	simple PAT	OFF	ON	OFF			
9	16:9 CRT	OFF	ON	OFF			
10	Sub-woofer	OFF	ON	ON			
11	Auto stand-by	OFF	ON	ON			
12	comb-filter	OFF	ON	OFF			
13	Auto YC det	OFF	ON	ON			
14	Auto comb det	OFF	ON	OFF			
15	AV2 Available	OFF	ON	ON			
16	AV3 Available	OFF	ON	ON			
17	AV4 Available	OFF	ON	OFF			
18	AV3 Front & rear	OFF	ON	ON			
19	SECAM Tape	OFF	ON	OFF			

Fig.4-2

### NOTE:

The above table is dependant on model, destination & size.

		Backend			
No	Descr.	Def	Min	Max	Data
1	R-on	ON	OFF	ON	ON
2	G-on	ON	OFF	ON	ON
3	B-on	ON	OFF	ON	ON
4	D-col	OFF	OFF	ON	ON
5	Color-axis	2	0	3	2
6	Contrast	63	0	63	63
7	Limit-Luv	3	0	3	3
8	Hue	31	0	63	31
9	Colour	31	0	63	28
10	CTI -Level	2	0	3	2
11	Brightness	31	0	63	31
12	Gamma	2	0	3	2
13	Sharpness	31	0	63	44
14	LTI-Level	0	0	3	0
15	R-Drive	41	0	63	40
16	BLK-Bottom	0	0	3	0
17	G-Drive	41	0	63	38
18	ABL-TH	0	0	3	0
19	B-Drive	41	0	63	21
20	ABL-Mode	2	0	3	2
21	Sub Bright	31	0	63	32
22	VM-Level	2	0	3	2
23	R-Cutoff	31	0	63	41
24	Preover	2	0	3	2
25	G-Cutoff	31	0	63	45
26	DPIC-Level	2	0	3	2
27	B-Cutoff	31	0	63	48
28	DC-Tran	1	0	3	1
29	Sub-Cont	7	0	15	7
30	LRGB2-Lvl	12	0	15	12
31	P-Abl	15	0	15	15
32	DL-Pass	OFF	OFF	ON	OFF
33	Sharp.Fo	ON	OFF	ON	ON
34	Aging-W	OFF	OFF	ON	OFF
35	Aging-B	OFF	OFF	ON	OFF
36	CB-offset1	7	0	15	7
37	CR-offset1	7	0	15	7
38	CB-offset2	7	0	15	7
39	CR-offset2	7	0	15	7
40	Sub Colour	0	-8	8	-1

Fig.4-3

		Feature setting				
No	Descr.	Min	Max	Data		
1	PIP	OFF	ON	ON		

Fig.4-4

Colour Decoder 1					
No	Descr.	Def	Min	Max	Data
1	DelayLinMd	OFF	OFF	ON	OFF
2	Gain set	1	0	3	1
3	Y-Delay	7	0	15	7
4	Phase Time	0	0	3	0
5	Vid Ident Md	OFF	OFF	ON	OFF
6	Sync Mode	OFF	OFF	ON	OFF
7	Vid Ident Sw	ON	OFF	ON	ON
8	H-Output	OFF	OFF	ON	OFF
9	Enagating	OFF	OFF	ON	OFF
10	IF Circuit	ON	OFF	ON	ON
11	GP Delay	OFF	OFF	ON	OFF

Fig.4-5

	Colour	Decode	er 2		
No	Descr.	Def	Min	Max	Data
1	DelayLinMd	OFF	OFF	ON	OFF
2	Gain set	1	0	3	1
3	Y-Delay	7	0	15	7
4	Phase Time	0	0	3	0
5	Vid Ident Md	OFF	OFF	ON	OFF
6	Sync Mode	OFF	OFF	ON	OFF
7	Vid Ident Sw	ON	OFF	ON	ON
8	H-Output	OFF	OFF	ON	OFF
9	Enagating	OFF	OFF	ON	OFF
10	IF Circuit	ON	OFF	ON	ON
11	GP Delay	OFF	OFF	ON	OFF

Fig.4-6

		Deflection			
No	Descr.	Def	Min	Max	Data
1	V-Size	31	0	63	34
2	V-Position	31	0	63	21
3	V-Comp	1	0	3	1
4	V-Linear	7	0	15	7
5	S-Corr	7	0	15	8
6	H-Size	31	0	63	29
7	EW-DC	OFF	OFF	ON	OFF
8	Pin-Amp	31	0	63	36
9	Up-Cpin	31	0	63	35
10	M-Pin	2	0	3	2
11	Lo-Cpin	31	0	63	37
12	Trapezium	7	0	15	7
13	H-Position	31	0	63	25
14	AFC-Bow	7	0	15	7
15	AFC-Angle	7	0	15	9
16	Up-Vlin	0	0	15	0
17	Lo-Vlin	0	0	15	0

Fig.4-7

	Dynami	c Conver	gence		
No	Descr.	Def	Min	Max	Data
1	Range	63	0	63	32
2	H Stat	33	0	63	33
3	H amp L	37	0	63	37
4	H amp R	36	0	63	36
5	Up Y	31	0	63	31
6	Low Y	33	0	63	33
7	Y Up L	30	0	63	30
8	Y Up R	30	0	63	30
9	Y Low L	31	0	63	31
10	Y Low R	30	0	63	30
11	Mbow Up L	31	0	63	31
12	Mbow Up R	32	0	63	32
13	Mbow Low L	32	0	63	32
14	Mbow Low R	32	0	63	32
15	V Stat	32	0	63	32
16	Linearity	128	0	255	104
17	H Centre	32	0	63	32
18	H Trap	32	0	63	32
19	Rotation	0	0	255	0
20	Focus Phase	128	0	255	128

Fig.4-8

	Feat	ture Low-E	End		
No	Descr.	Def	Min	Мах	Data
1	F.S.F.M	OFF	OFF	ON	OFF
2	G-Mode	OFF	OFF	ON	OFF
3	Picture Pos	0	0	3	0
4	Comp Mode	OFF	OFF	ON	OFF
5	CompSW	OFF	OFF	ON	OFF
6	Acqu.freq	OFF	OFF	ON	OFF
7	Still Pic	OFF	OFF	ON	OFF
8	Init	OFF	OFF	ON	OFF
9	Dis Feature	ON	OFF	ON	ON
10	Dis Vlimit	ON	OFF	ON	ON
11	Scr Fade	0	0	3	0
12	Hwe Delay	20	0	255	20
13	Auto Vshift	OFF	OFF	ON	OFF
14	Vwe Delay	0	0	127	0
15	SFR sw	OFF	OFF	ON	OFF
16	IPQ	0	0	3	0
17	D.Col Dec	OFF	OFF	ON	OFF
18	Blankfield	0	0	15	0
19	P1.5	OFF	OFF	ON	OFF
20	P1.4	OFF	OFF	ON	OFF
21	P1.3	OFF	OFF	ON	OFF
22	P1.2	OFF	OFF	ON	OFF
23	P1.1	OFF	OFF	ON	OFF
24	Set Vdba	OFF	OFF	ON	OFF
25	Set Sidep	ON	OFF	ON	ON
26	Set Hwe	OFF	OFF	ON	OFF
27	Set Clv	OFF	OFF	ON	OFF
28	Set Hddel	OFF	OFF	ON	OFFF
29	Set Hblnd	OFF	OFF	ON	OFF
30	Set Hre	ON	OFF	ON	ON
31	Set Hbda	ON	OFF	ON	ON
32	Set Hdav	ON	OFF	ON	ON
33	Vbdasta	0	0	255	0
34	Vsdasto	0	0	255	0
35	Msbhwesto	OFF	OFF	ON	OFF
36	Msbhwesta	OFF	OFF	ON	OFF
37	Msbvbdasto	OFF	OFF	ON	OFF
38	Msbvbdasta	OFF	OFF	ON	OFF
39	Hdavsta	40	0	255	40
40	Hdavsto	255	0	255	255

	Feature	Low-End	(Cont.)		
No	Descr.	Def	Min	Max	Data
41	Hbdasta	223	0	255	223
42	Hbdasto	222	0	255	222
43	Hresta	38	0	255	38
44	Hresto	202	0	255	202
45	Hblndsta	31	0	255	31
46	Hblndsto	30	0	255	30
47	MsbHblndsta	OFF	OFF	ON	OFF
48	MsbHblndsto	OFF	OFF	ON	OFF
49	Msb Hresto	ON	OFF	ON	ON
50	Msb Hresta	OFF	OFF	ON	OFF
51	Msbhbdasta	ON	OFF	ON	ON
52	Msbhbdasto	ON	OFF	ON	ON
53	Msbhdavsto	ON	OFF	ON	ON
54	Msbhdavsta	OFF	OFF	ON	OFF
55	Hddel	0	0	15	0
56	Clvsta	0	0	255	0
57	Clvsto	9	0	255	9
58	Hwesta	44	0	255	44
59	Hwesto	208	0	255	208
60	Ex-Thres	OFF	OFF	ON	OFF
61	Wes	ON	OFF	ON	OFF
62	Demo mode	ON	OFF	ON	OFF
63	Limerick NR	0	0	4	0
64	Nthr	0	0	255	2
65	Wval	200	0	255	200
66	Agc Ych	203	0	255	203
67	Agc Uvch	209	0	255	209
68	Aal-Bypass	OFF	OFF	ON	OFF
69	Stby Fr	OFF	OFF	ON	OFF
70	Lsb Agc-Uv	OFF	OFF	ON	OFF
71	Lsb Agc-Y	OFF	OFF	ON	OFF
72	Vcl cor	0	0	3	0
73	Ucl cor	0	0	3	0
74	Uv cor mode	0	0	3	0
75	Uvcl tau	3	0	3	3
76	Uvcol Lvl	0	0	3	0
77	Fil Mem	OFF	OFF	ON	OFF
78	Overl Thr	1	0	3	1
79	Y delay f	4	0	7	4
80	Dcti pdxsel	ON	OFF	ON	ON

Fig.4-9

	Feature I	_ow-End	(Cont.)		
No	Descr.	Def	Min	Max	Data
81	Dcti Thres	0	0	15	0
82	Dcti Gain	0	0	7	0
83	Dcti Gain Dcti Super	ON	OFF	, ON	ON
84	Dcti Fil	ON	OFF	ON	ON
85	Dcti Prot	ON	OFF	ON	ON
86	Dcti Sep	ON	OFF	ON	ON
87	Dcti Limit	2	0	3	2
88	Peak Beta	0	0	7	0
89	Peak Alpha	2	0	7	2
90	Peak Neg g	0	0	3	0
91	Peak Delta	0	0	3	0
92	Peak Tau	0	0	7	0
93	Peak Corth	0	0	15	0
94	Overlay V	0	0	15	0
95	Overlay U	0	0	15	0
96	Overlay Y	10	0	255	10
97	Sidep sta	240	0	255	240
98	Sidep sto	36	0	255	36
99	Y delay B	7	0	7	7
100	Invert UV	ON	OFF	ON	ON
101	Output Range	ON	OFF	ON	ON
102	Sidep Fdel	0	0	3	0

		PIP			
No	Descr.	Def	Min	Max	Data
1	Freeze	OFF	OFF	ON	OFF
2	Frame	ON	OFF	ON	ON
3	Pipon	ON	OFF	ON	OFF
4	Seldel	1	0	15	1
5	Mixdis	ON	OFF	ON	ON
6	H-Poshi	0	0	3	0
7	H-Pos	137	0	255	137
8	V-Pos	59	0	255	59
9	Y-Delay	0	0	7	0
10	V-Dec	OFF	OFF	ON	OFF
11	H-Dec	OFF	OFF	ON	OFF
12	Insvh	ON	OFF	ON	ON
13	Chrins	ON	OFF	ON	ON
14	Pmod	0	0	3	0
15	Imod	0	0	3	0
16	Clisw	ON	OFF	ON	ON
17	H side	4	0	15	4
18	Vsiisq	OFF	OFF	ON	OFF
19	Vsidel	0	0	31	0
20	Parasynd	ON	OFF	ON	ON
21	Vspisq	OFF	OFF	ON	OFF
22	Vspdel	10	0	31	10
23	Con	1	0	15	1
24	Fry	8	0	15	8
25	Frv	3	0	15	3
26	Fru	4	0	15	4
27	Sel Down	OFF	OFF	ON	OFF
28	Frwidv	1	0	3	1
29	Frwidh	2	0	7	2
30	Mat	4	0	7	4
31	Daconst	OFF	OFF	ON	OFF
32	Plltc	1	0	3	1
33	Dacontle	OFF	OFF	ON	OFF
34	Left	83	0	255	83
35	RightHi	1	0	3	1
36	Right	192	0	255	192
37	Up	46	0	255	46
38	Down	189	0	255	189

Fig.4-10

		Sound			
No	Descr.	Def	Min	Max	Data
1	Ref.Level	40	0	20	40
2	Auto-gain	ON	OFF	ON	ON
3	Ana-in	0	0	1	0
4	Corr-mute	ON	OFF	ON	ON
5	Clock out	ON	OFF	ON	ON
6	AM-gain	ON	OFF	ON	ON
7	Clip mode	0	0	2	0
8	SCART1 Vol	79	0	127	79
9	SCART2 Vol	79	0	127	79
10	SCART Pr	27	0	127	27
11	lzs1-pr	16	0	127	16
12	Izs2-pr	16	0	127	16
13	FM pr	27	0	127	27
14	BG Nic-pr	53	0	127	53
15	L Nic-pr	59	0	127	59
16	DK Nic-pr	53	0	127	53
17	l Nic-pr	97	0	127	97
18	Irl Nic-pr	97	0	127	97
19	AVC-Decay	2	0	8	2
20	Subw-vol	0	0	-127	0
21	Subw-freq	20	5	40	20
22	Subw-Hpuss	OFF	OFF	ON	OFF
23	Spat-stre	127	0	-1	127
24	Spat-Coeff	0	0	8	0
25	Bass offs	0	-3	3	0
26	Treble offs	0	-3	3	0
27	Loudn offs	0	0	9	0
28	Hp-voloffs	-2	-5	5	-2
29	M-S Limit	30	-128	127	30
30	M-B Limit	-30	-128	127	-30
31	S-M Limit	12	-128	127	12
32	S-B Limit	-20	-128	127	-20
33	B-M Limit	-12	-128	127	-12
34	B-S Limit	20	-128	127	20
35	Err.Max	40	0	255	40
36	Err.Min	14	0	255	18

Fig.4-11

	Special Adj	ustmen	it	
No	Descr.	Min	Max	Data
1	RGB Level	0	7	0
2	RGB Gain	0	31	9
3	RGB PatLevel	0	7	7
4	RGB Patgain	0	31	31
5	RGB H-position	-10	10	-1
6	Extra Fw	0	255	255
7	EPG Chks Check	OFF	ON	ON
8	Slicer High	OFF	ON	ON
9	FCW Wide	OFF	ON	ON
10	High PII	OFF	ON	OFF
11	Panic offset	0	2	0
12	Wide Mute	OFF	ON	ON

Fig.4-12

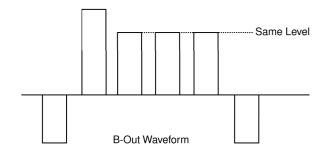
### **DEFLECTION SYSTEM ADJUSTMENT**

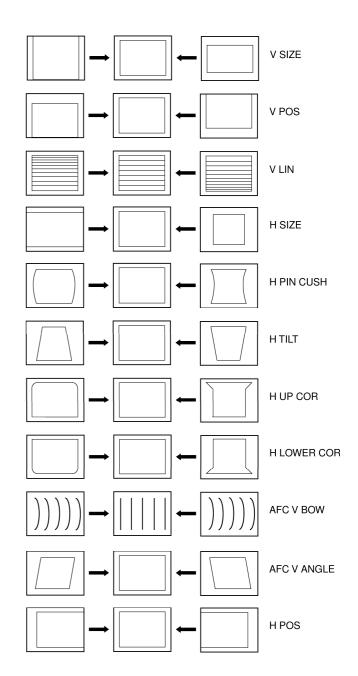
- Enter into the service mode and select 'Deflection'. The 'Deflect' adjustment menu will be displayed.
- 2. Select and adjust each item to obtain the optimum image.

### 4-2.VOLUME ELECTRICAL ADJUSTMENTS

### **Sub Colour Adjustment**

- 1. Input a PAL colour bar signal.
- 2. Connect an oscilloscope to CN5400 pin 5 on the C board.
- 3. Enter into the 'SERVICE MODE'.
- 4. Choose 'Backend'.
- 5. Adjust Sub Colour data so that the right sides of the waveforms are of equal height.





### 4-3. TEST MODE 2:

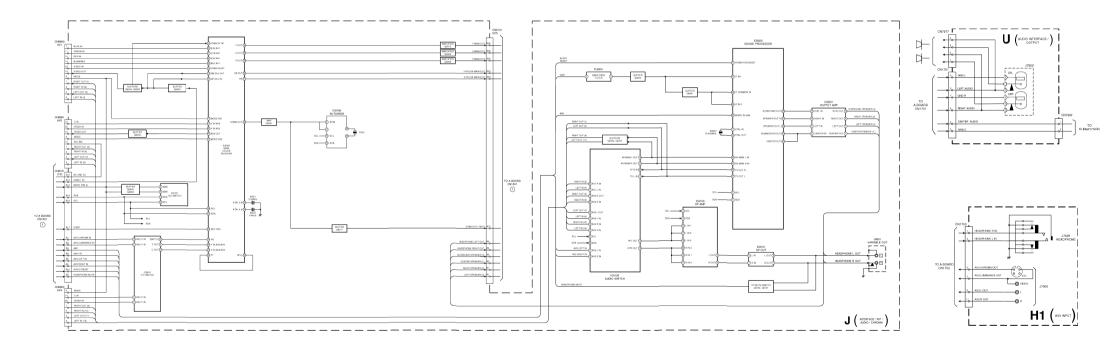
Is available by pressing 'TEST' button twice, OSD 'TT' appears. The functions described below are available by pressing the two numbers. To release the Test mode 2, press 0, 10, 20 ... twice or switch the TV set into Stand-by Mode. Pressing the two Local Control buttons ( + and -) during Power ON will also switch into 'TT' mode.

In 'TT' mode, it is possible to remove the Menu from the screen by pressing the Speaker Off button once. Pressing the Speaker OFF button a second time will cause the menu to reappear. The Function is kept even when the menu is not displayed !!.

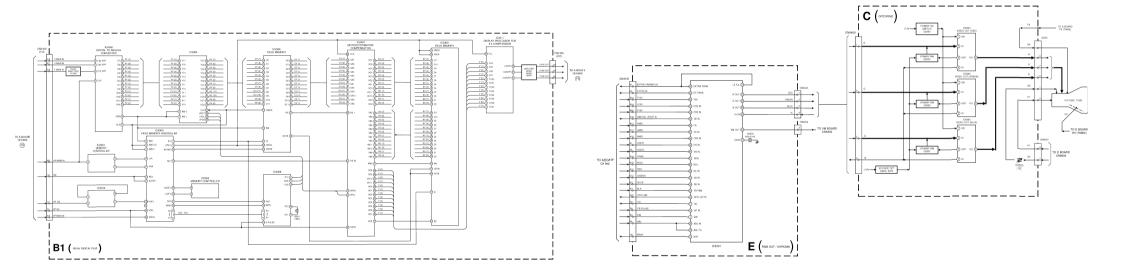
00	Switch back to normal mode - 'TT' mode off
01	Set picture maximum
02	Set picture minimum
03	Set speaker/headphone Volume to 30%
04	Set speaker/headphone Volume to 50%
05	Set speaker/headphone Volume to 65%
06	Set speaker/headphone Volume to 80%
07	Ageing Mode
08	Shipping Condition
09	Language Reset
10	No function
11	Sub picture adjustment
12	Sub colour adjustment
13	Display software version and TV set configuration
14	Production Info Display
15	Picture Rotation
16	Picture level 50%
17	Audio mute on
18	No function
19	Sub brightness adjustment
20	See 'TT10'
21	Destination A includes text settings, display TV status
22	Destination L includes text settings, display TV status
23	Destination E includes text settings, display TV status
24	Destination U includes text settings, display TV status
25	Destination D includes text settings, display TV status
26	Destination B includes text settings, display TV status
27	Destination K includes text settings, display TV status
28	Destination R includes text settings, display TV status
30	See 'TT10'
31	Geometry Adjustment 1
32	Geometry Adjustment 2
33	Error monitor
34	No function
35	CRT 4:3 < > 16:9; Display TV status
36	Line 23 detection switch
37	Velocity Modulation (VM) test
38	No function
39	No function
40	See 'TT10'

41	Screen mode check
42	Re initialise geometry
43	No function
44	No function
45	No function
46	Reserved for dealer commander
47	Re initialise NVM
48	Set NVM as non virgin
49	Set NVM as virgin
50	See 'TT10'
51	Set Dolby volume to 90%
52	Dolby on left speaker only
53	Dolby on right speaker only
54	Dolby on left centre only
55	Dolby on surround speaker only
56	
59	No function
60	See 'TT10'
61	Service mode
62	Production mode
65	Reset error codes
68	Ignore errors on
69	Ignore errors off
70	See 'TT10'
71	
72	No function
73	Clear programs
74	Oldar programs
-	No function
79	
80	See 'TT10'
81	PAP H adjustment left image
82	PAP H adjustment right image
83	No function
86	NO function
87	Personal ID reset
88	Parental Lock off
89	No function
90	See 'TT10'

### 5-1 BLOCK DIAGRAMS (1)

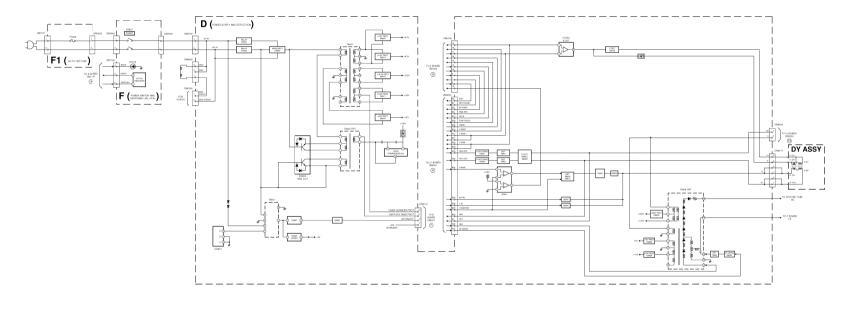


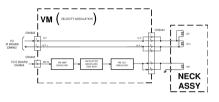
### 5-1 BLOCK DIAGRAMS (2)



39 40 41 41

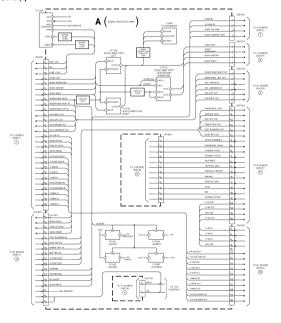
### BLOCK DIAGRAMS (3)

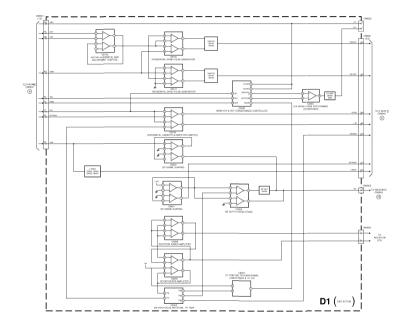


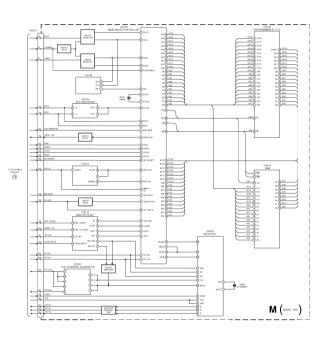


43 46 46 47

#### BLOCK DIAGRAMS (4)

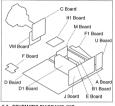






48 49 50 51 51





## 5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

- PRINTED WIRING BOARDS

  Note:

  Al capacitors are in JF unless otherwise noted.

  JF: "JFF 50W" or less are not indicated except for electrolytic types.
  Indication of resistance, which does not have one for rating electrical power, is as follows.

- Chip resistors are 1/10W
   All resistors are in ohms.
   k = 1000 ohms, M = 1000,000 ohms
- : nonflammable resistor. fusible resistor.
- : panel designation or adjustment for repair.

- [pure designation or adjustment for repair.
   All variable and adjustable resistors have
  characteristic curve B, unless otherwise noted.
   All variable and object of the control of the control

53

- - : B bus.
- 🔟 : earth ground.
- TESS : RF signal path.

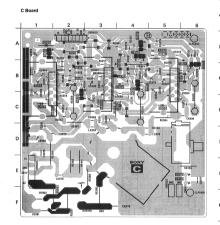
#### Reference Information

RESISTOR	HN	: METAL FILM
	RC	: SOLID
	FPRD	: NON FLAMMABLE CARBON
	FUSE	: NON FLAMMABLE FUSIBLE
	RS	: NON FLAMMABLE METAL OXIDE
	RB	: NON FLAMMABLE CEMENT
	RW	: NON FLAMMABLE WIREWOUND
	*	: ADJUSTMENT RESISTOR
COIL	LF-8L	: MICRO INDUCTOR
CAPACITOR	TA	: TANTALLM
	PS	: STYROL
	PP	: POLYPROPYLENE
	PT	: MYLAR
	MPS	: METALIZED POLYESTER
	MPP	: METALIZED POLYPROPYLENE
	ALB	: BIPOLAF
	ALT	: HIGH TEMPERATURE
	ALR	: HIGH RIPPLE

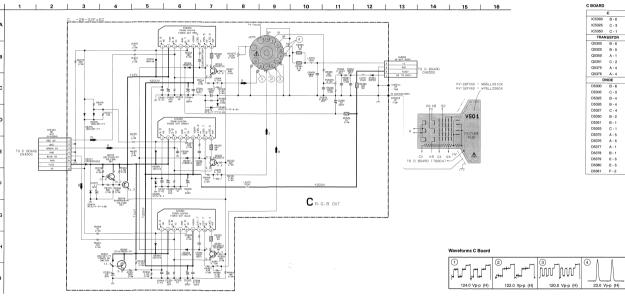
Note: The components identified by shading and marked A are critical for safety. Replace only with the part numbers specified in the parts list.

te: Les composants identifiés par une trame et par une marque \( \Delta\) son d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de ruméro spécifié. specified.



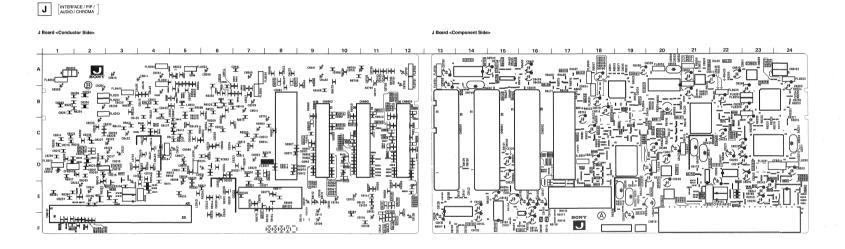


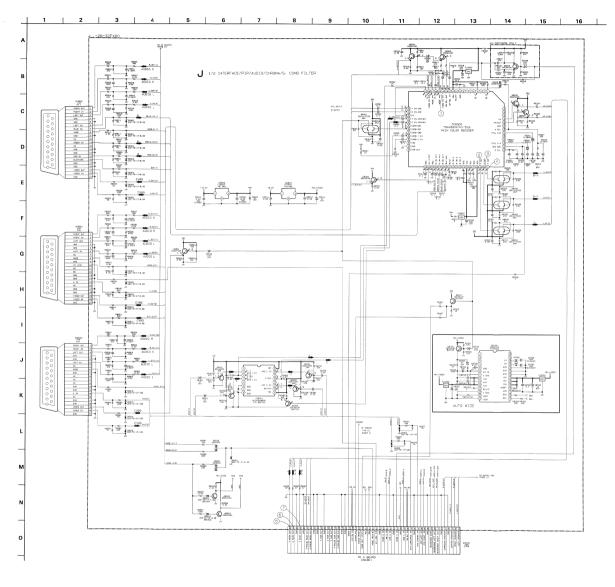
54



55

| Description |

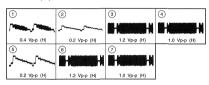


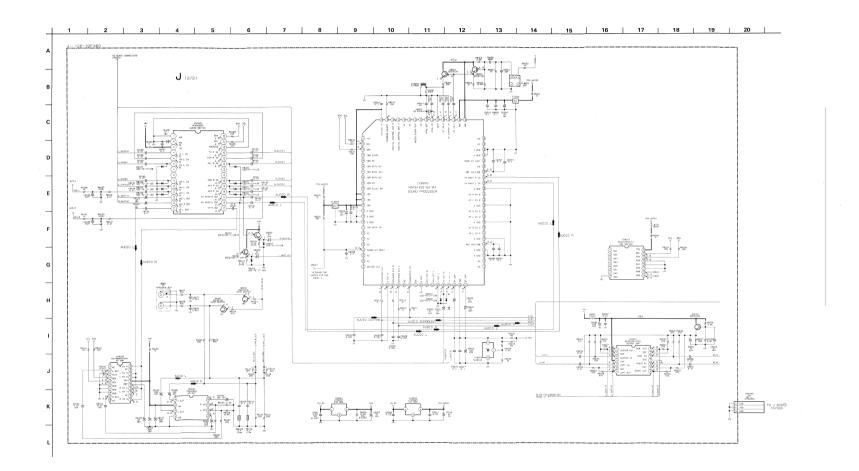


#### J BOARD \* MARK

Ref	28FXEGA	28FXE0B	28F)/90D	28FXSCE	28FX00K	28FX000R	28FX60U	32FX60A	32FX60B	\$: FX60D	32FX90E	32FX60K	32FX6IR	32FX90U
R8347					-	-			100					
R8348									SHORT 0					

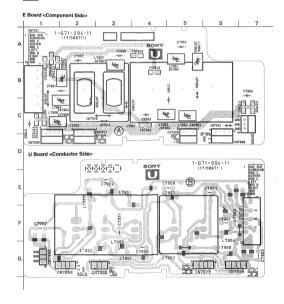
#### Waveforms J1(1/2) Board

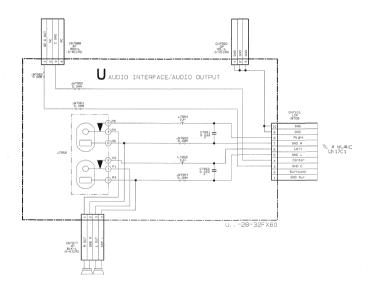




69 7c









A [SIGNAL AND AUDIO AMP]

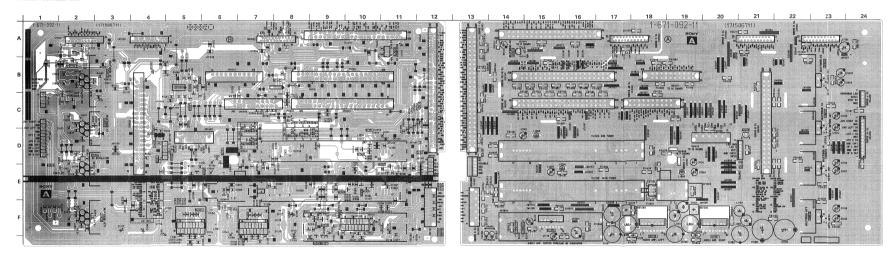
#### A BOARD

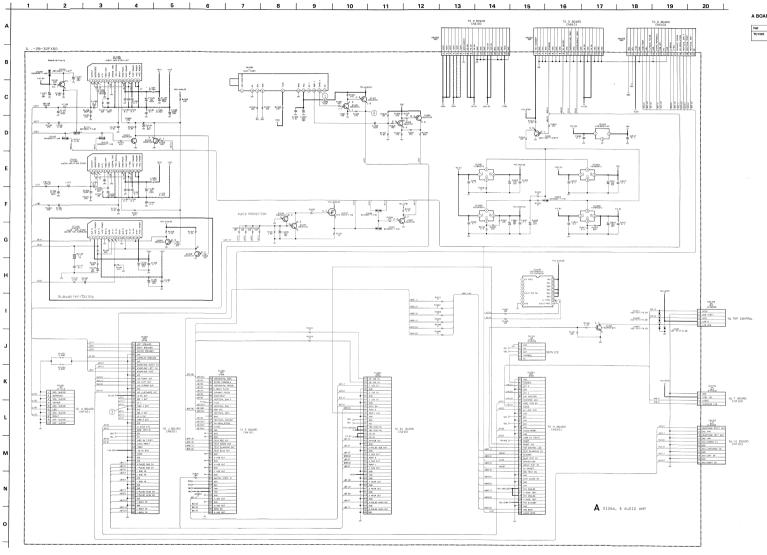
	ic	DI	ODE
IC1126	F-6	D1100	A - 2
IC1151	F - 5	D1101	B - 2
IC1176	G - 15	D1102	B - 2
IC1400	B - 5	D1103	B - 4
IC1601	C-3	D1401	E - 4
IC1602	B-3	D1402	D - 5
IC1603	A - 11	D1403	D - 4
IC1604	D - 3	D1404	D - 5
IC1605	F-3	D1626	B-6
TRAN	SISTOR	D1627	C-5
Q1100	A-2	D1629	E - 1
Q1201	D - 6		
Q1202	E-6		
Q1203	F-9		
Q1204	F-9		
Q1226	G - 9		
Q1227	G - 9		
Q1326	E - 11		
Q1327	E - 11		
Q1328	E - 10		
Q1329	E - 10		
Q1400	D - 4		
Q1626	B - 5		

75

#### A Board <Conductor Side>

#### A Board <Component Side>

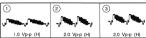


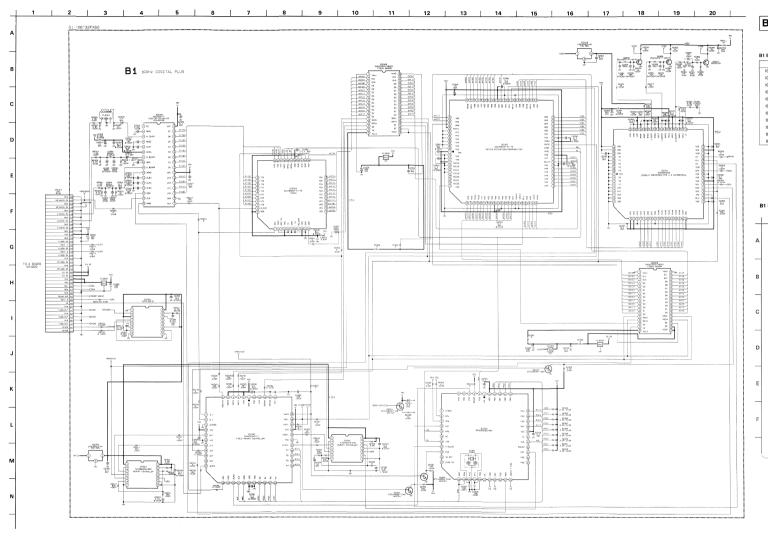


#### A BOARD \* MARK

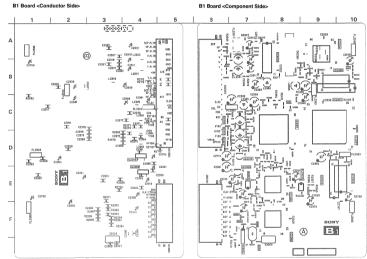
Ref	28FX50A	28FX99G	28F360D	28FX60E	28FX60K	28FX60R	20FX6CU	32FX60A	32FX60B	32FX60D	32FX60E	32FX60K	32FX6CR	32FX60
TU1326	TUNER/VIF	TUNERVIF	TUNESVIF	TUNER/VIF	TUNER/VIF	TUNERVIF	TUNER/MF	TUNERIVIF	TUNERVIF	TUNER/VIF	TUNER/VIF	TUNER/MF	TUNER//IF	TUNER/
	(AEP)	(FR)	(AIP)	(AEP)	(AEP)	(AEP)	(UK)	(AEP)	(FR)	(AEP)	(AEP)	(AEP)	(AEP)	(AEP)

#### Waveforms A Board



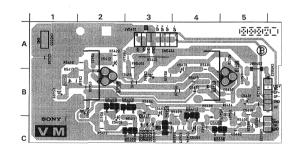


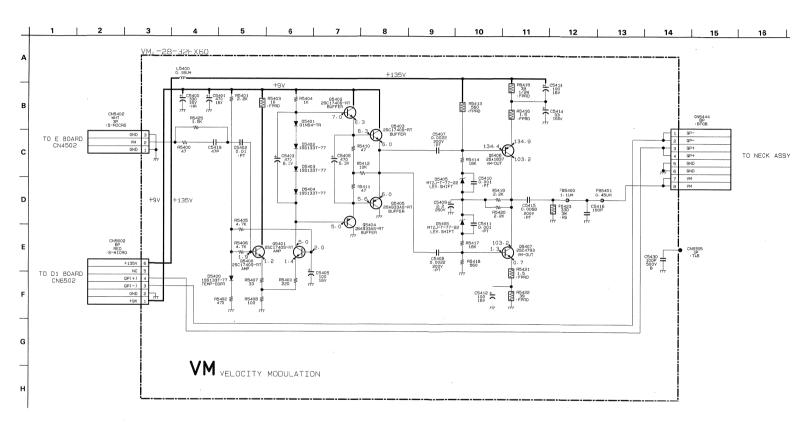
B1 [ 100Hz DIGITAL PLUS]



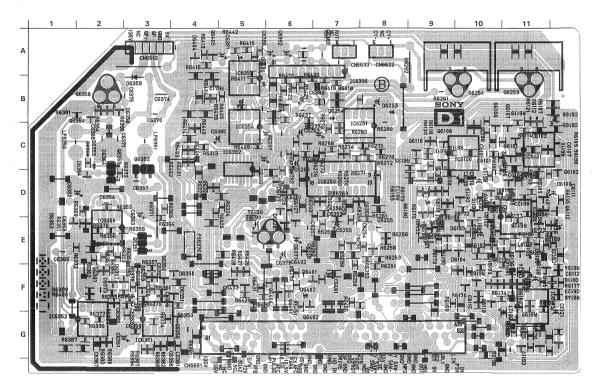


VM Board



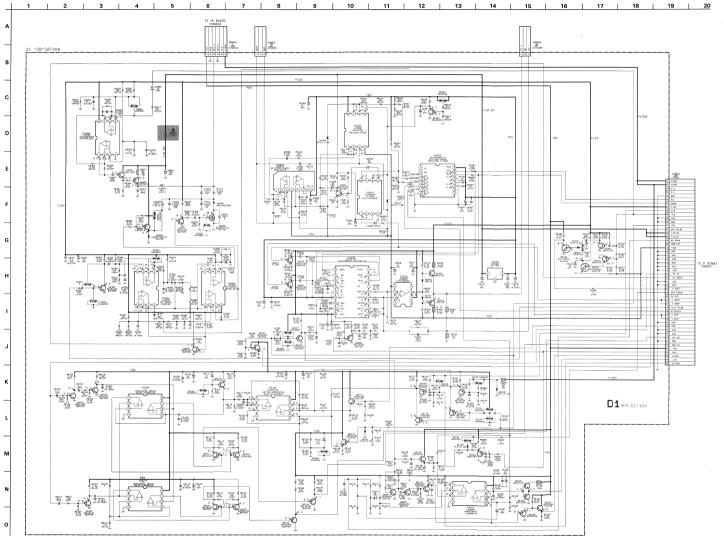


#### D1 Board



#### D1 BOAR

	IC	Q6350	E-8
IC6100	C - 9	Q6351	E - 3
IC6101	C - 12	Q6352	D-3
IC6102	D - 11	Q6353	C - 2
IC6103	G - 12	Q6354	C-2
IC6250	D-8	Q6356	G - 4
IC6251	C-8	Q6358	B-2
IC6302	D - 5	Q6401	F-7
IC6350	D-3	Q6402	G-6
IC6351	G-3	Q6403	F-5
IC6352	G - 1	Q6404	G - 6
IC6353	E - 5	Q6455	C-8
IC6354	C - 5	Q6465	B - 5
IC6355	A - 5	DI	ODE
IC6356	A - 6	D6100	D - 12
TRAN	ISISTOR	D6101	E - 12
Q6100	D - 11	D6102	D - 10
Q6101	C - 11	D6104	E - 9
Q6102	C - 12	D6105	E - 9
Q6104	C-9	D6106	E-8
Q6105	B - 11	D6108	F - 11
Q6106	C - 9	D6127	D-6
Q6107	E - 11	D6128	E-6
Q6108	B - 10	D6129	D - 8
Q6110	C - 8	D6198	D - 8
Q6118	G - 10	D6253	B - 8
Q6119	E-8	D6254	B - 7
Q6120	E-9	D6350	F - 4
Q6122	E-9	D6351	F - 4
Q6123	E - 12	D6352	E - 1
Q6125	H - 11	D6353	C-2
Q6126	H - 11	D6354	D - 2
Q6127	E - 6	D6355	E-3
Q6128	F - 12	D6358	B - 2
Q6130	H - 11	D6359	B - 3
Q6131	G - 12	D6401	F - 7
Q6201	F - 10	D6402	F-6
Q6202	F - 10	D6403	A - 5
Q6250	E - 8	D6404	A - 4
Q6251	E - 8	D6405	A - 5
Q6252	B - 10		
Q6253	B - 11		
Q6254	C - 2	1	



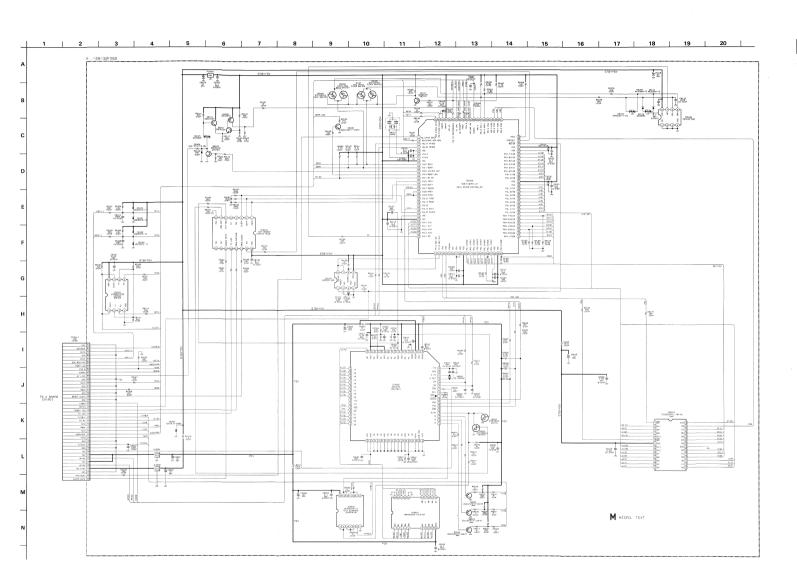
#### D1 BOARD \* MARK

Ref	28FX60A	28FX60B	28F3600	28FX60E	28FX60K	28FX60R	28FX60U	32FX60A	32FX60B	32FX40D	32FXEGE	32FX60K	32FXKR	32FX60U
C6129	0.047MF	0.047MF	0.04°MF	0.047MF	0.047MF	0.047MF	0.047MF	0.1MF	0.1MF	3.1MF	0.1MF	0.1MF	0.1MF	0.1MF
C6130	220PF							-						
CN6502	1-564-509- 11	1-564-509-	1-554-509- 11	1-564-509- 11	1-584-509-	1-664-509- 11	1-564-509-	1-568-881- 51	1-568-881- 51	1-669-881- 51	1-568-881- 51	1-569-881-	1-568-861- 51	1-569-891- 51
D6350								DAN202K- T-146	DAN202K- T-146	DxN202K- T-146	DAN202K- T-146	DAN202K- T-146	DAN206K- T-146	DAN202K- T-146
IC6100	8-759-10- 393	8-759-10- 393	8-759-10- 363	8-759-10- 393	8-759-10- 393	8-759-10- 393	8-759-10- 393	8-759-45- 095	8-759-45- 095	9759-45- 095	8-759-45- 095	8-759-45- 095	8-759-45- 095	8-759-45- 095
IC6101	8-759-10- 393	8-759-10- 393	8-759-10- 363	8-759-10- 393	8-759-10- 393	8-759-10- 593	8-759-10- 393	8-759-45- 095	8-759-45- 095	8759-45- 095	8-759-45- 095	8-759-45- 095	8-759-45- 095	8-759-45- 095
ICE350	8-758-13- 580	8-759-13- 580	8-759-13- 580	8-759-13- 580	8-759-13- 580	8-759-13- 580	8-759-13- 580	8-769-00- 870	8-759-00- 870	8759-00- 870	8-759-00- 870	8-759-00- 870	8-759-00- 870	8-759-00- 870
106351	8-759-193- 93	8-759-193- 93	8-759-193- 91	8-759-193- 93	8-759-193- 93	8-759-193- 93	8-759-193- 93	8-759-450- 95	8-759-450- 95	8-150-450- 95	8-759-450- 95	8-759-450- 95	8-759-450- 95	8-759-450- 95
106325	8-759-103- 93	8-759-103- 93	8-759-103- 93	8-759-103- 93	8-759-103- 93	6-759-103- 93	8-759-103- 93	8-759-450- 95						
R6109	22K	22K	23K	25K	22K	22K	22K	47K	47K	47K	47K	47%	47K	47K
R6130	470K	470K	47tic	470K	470K	470K	470K							-
R6141	6.8K	6.8K	8.8K	6.8K	6.8K	6.8K	6.8K	4.7K						
R6142	2.25	2.2K	2.5K	2.2K	2.2%	2.2K	2.2K	1.8K	1.5K	1.5K	1.5K	1.585	1.5%	1.5K
R6145	12K	12K	126	12K	1290	12K	12K	680	680	690	000	600	610	690
R6146	53K	33K	336	33K	33K	33K	33K	4.7K	4.7K	4.7K	4.7K	4.710	4.7K	4.7K
R6154	2.2%	2.2K	2.5K	2.2K	2.2K	2.2K	2.2K	470	470	470	470	470	470	470
R6155	5.6K	4.7K												
R6158	1014	10K	100	10K	10K	10K	10K	6.0K	6.8K	6.8K	6.8K	6.8K	6.8K	6.8K
R6160	SHORT O	SHORT 0	1.5K	1.5K	1.5K	1.5K	1.5K	1.5K	1.5%					
R6161	6.800	6.8K	6.EK	6.8K	6.8K	6.8K	6.8K	5.6K	5.6K	5.6K	5.6K	5.6K	6.6K	5.6K
R6174	1255	12K	12K	12K	12K	12K	12K	22K	22K	22K	22K	224	22K	22K
R6179	5.690	5.6K	5.6K	5.6K	5.6K	5.6K	5.6K	2.7K						
R6186	SHORT 0	1K												
R6169	4.710	4.7K	4.3K	4.7K	4.7K	4.7K	4.7K	1K	115	1K	1K	1K	1K	1K
R6192	22K	22K	23K	22K	22K	22K	22K	4.7K						
R6195	68K	68K	69K	68K	68K	68K	68K	4.7K						
R6198	1214	12K	12K	12K	12K	12K	12K	22K						
R6215								47K	47K	47K	47K	47%	47K	47K
R6272	22K	22K	22K	22K	2211	22K	22K						-	
R6370	10K	10K	10K	10K	1060	10K	10K	12K	12K	12K	12K	1214	12K	12K
R6410	10K	10K	10K	10K	106	10K	10K	12K						

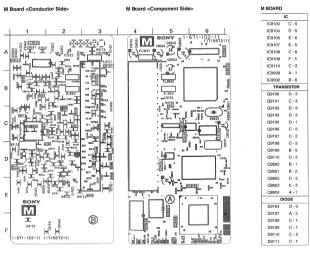
93

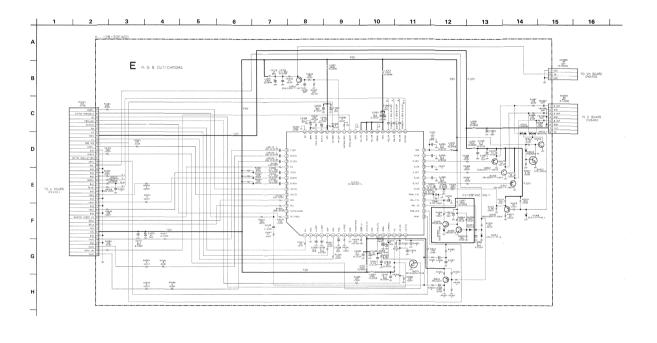
94

- 95



M [ MICRO, TEXT]





E Board < Component Side>

E Board < Component Side

E Board < Compone

101

102

Е

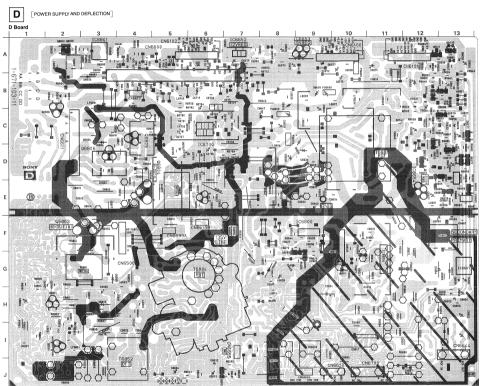
103

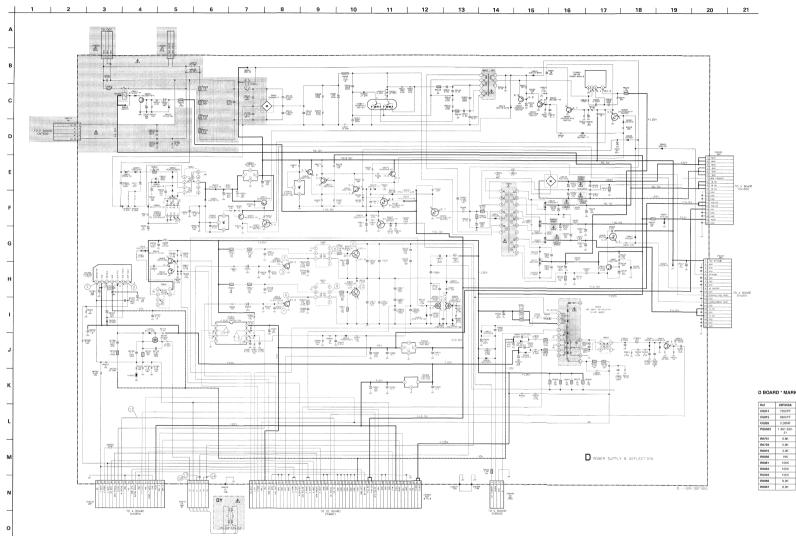
RGB OUT / CHROMA

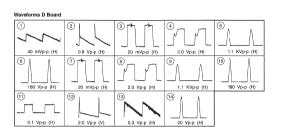
#### D BOARD

1C5

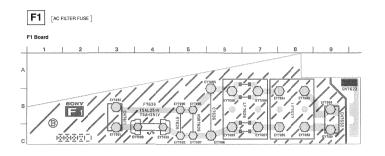
	IC	D6613	D - 12
IC6600	F-9	D6615	C - 12
IC6604	H - 11	D6616	D - 9
IC6651	G - 13	D6617	D - 8
IC6652	A - 7	D6618	B - 11
IC6653	A - 9	D6619	B - 8
IC6654	D - 12	D6620	B - 9
IC6667	E - 14	D6621	B - 12
IC6676	D - 13	D6622	C - 13
IC6700	D - 6	D6623	E-8
IC6801	A - 3	D6624	B - 13
TRAN	SISTOR	D6625	A - 12
Q6600	J-6	D6627	A - 10
Q6602	G-9	D6628	A - 13
Q6603	G - 8	D6629	B - 12
Q6605	D - 12	D6651	I - 13
Q6606	A - 13	D6652	H - 13
Q6607	E - 8	D6653	H - 13
Q8651	E - 13	D6654	G - 12
Q8652	E - 14	D6655	G - 13
Q6667	E - 13	D6656	E - 13
Q6676	D - 13	D8658	H - 13
Q6677	D - 14	D6659	F - 13
Q6678	D - 13	D6676	C - 13
Q6679	C - 13	D6677	C - 13
Q6680	C - 13	D6678	C - 13
Q6681	D - 13	D6679	D - 13
Q6700	C-6	D6681	E - 13
Q6801	H - 2	D6700	C-5
Q6802	E - 6	D6701	H - 2
Q6803	F - 2	D6803	B-3
Q6804	D - 5	D6804	C - 3
Q6805	E - 13	D6805	G-3
Q6806	D - 3	D6806	H - 3
Q6807	B - 13	D6807	G - 7
Q6809	A - 2	D6808	G-8
Q6810	A-2	D6809	B - 13
Q6851	1-2	D6811	D - 3
DI	ODE	D6812	B - 2
D6600	J - 7	D6813	B - 2
D6601	J - 7	D6851	H - 2
D6602	J - 6	D6852	1 - 2
D6603	D - 12		
D6604	1 - 11		
D6610	C - 12	1	

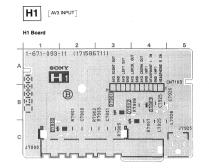


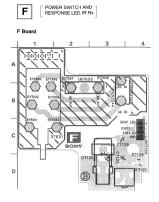


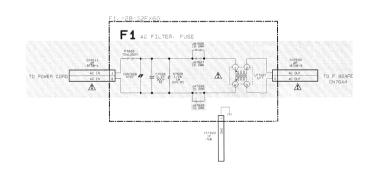


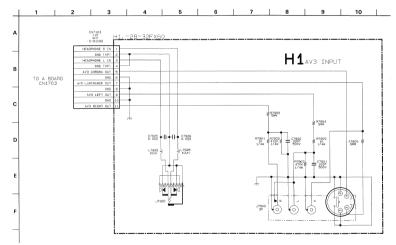
1	28FX60A	28FX60B	28FX600	28FX60E	28FX60K	28F>60R	28FX60U	32FX60A	32FX60B	32FX60D	32FX60E	32FX60K	32FX60R	32FX60U
814	7500PF	7500PF	7500PF	7500PF	7500PF	750IPF	7500PF	6800PF	6900PF	8800PF	6800PF	8800PF	(800PF	6800PF
815	8800PF	SECOPE	68COPF	6800PF	63COPF	650IPF	6800PF	6200PF	6200PF	6200PF	6200PF	6200PF	6200PF	6200PF
826	0.38MF	0.38MF	0.39MF	0.39MF	0.39MF	0.36MF	0.39MF	0.33MF	0.33MF	0.33MF	0.33MF	0.33MF	1.33MF	0.33MF
6603	1-801-550- 21	1-901-550- 21	1-801-550- 21	1-801-550- 21	1-801-550- 21	1-801-590- 2f	1-801-550- 21	1-801-549- 21	1-801-549-	1-801-549- 21	1-801-549- 21	1-801-549- 21	1-301-549- 21	1-801-549- 21
701	5.6K	5.8K	5.6K	5.6K	5.6K	5.6K	5.6K	4.7K	4.7K	4.7K	4.7K	6.7K	6.7%	4.7K
763	5.6K	5.6K	5.6K	5.6K	5.6K	5.K	5.6K	4.7K	4.7K	4.7%	4.7K	4.7%	4.7%	4.7K
810	3.5K	3.3K	3.3K	3.3K	3.3K	3.3K	3.3K	3.9K	3.9K	3.900	3.9K	3.9K	3.914	3.9K
836	15K	15K	1500	15K	150	15K	15K	10K	10K	10K	10K	10K	10K	10K
851	100K	100%	100K	100K	100K	100K	100K	220K	220K	2504	220K	250K	55010	220K
852	100K	100K	100K	100K	100K	100K	1000	220K	220K	2204	220K	220K	2204	220K
853	100K	100%	100K	100K	100K	100K	10010	220K	220K	2204	220K	220%	2204	220K
856	8.26	8.2K	8.2K	8.2K	8.2K	8.5%	8.2K	6.8K	5.8K	6.8K	6.8K	6.8K	6.8K	6.8K
857	8.2K	8.2K	8.2K	8.2K	8.2K	8.5%	8.2K	6.8K	5.8K	6.8K	6.8K	6.8K	6.84	6.8K

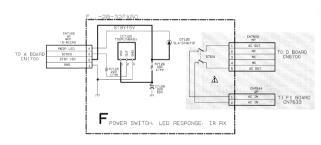




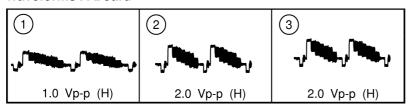




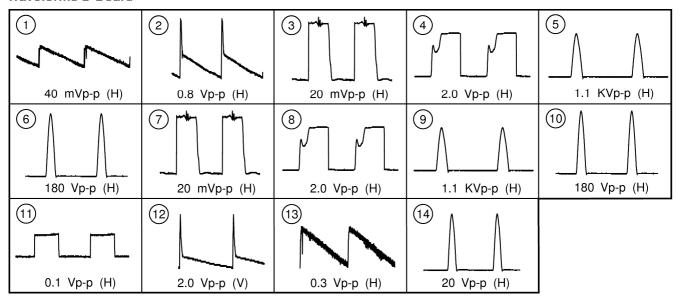




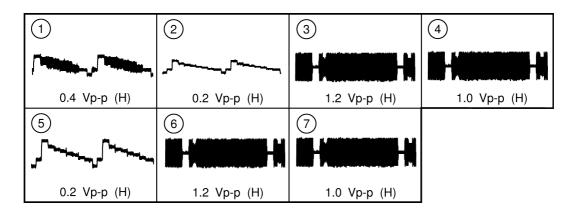
## **Waveforms A Board**



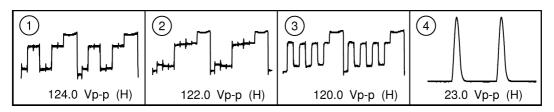
## **Waveforms D Board**



## Waveforms J1(1/2) Board

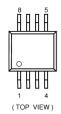


## **Waveforms C Board**



## **5-4 SEMICONDUCTORS**

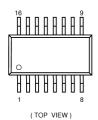
BA7046F BA7046F-T1 LM393PS-E20 MB3793-42NF MB3793-42NF-ER NJM2240M NJM2240M(TE2) NJM3404AD



CXA1855Q-T6



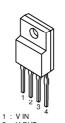
CXA1875AM-T4 HE4094BT MC14052BDR2 MC74F157ADR2 SN74LS221D 74HCT4046AD/S470



CXD2053S TDA4780/V3



KA78R05TU KA78R09TU KA78R33TU



1 : V IN 2 : V OUT 3 : GND 4 : ON/OFF CONTROL

LM393D M5216P M24C32-BN6 ST24C16FB6 TDA2822M UPC393C



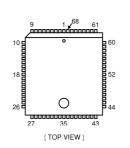
LM78L05ACZ LM78L12ACZ L78L05ACZ-AP L78L12ACZ-AP



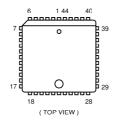
MB3793-42PNF-ER



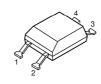
MSP3410D-QA-B4 SAA7185WP SDA5273P-C134-GEG SDA5275



M27C800-100K1



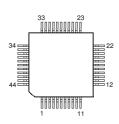
PC123F2 PC123FY2



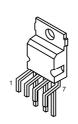
SBX1981-51



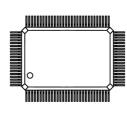
SDA9361



STV9379



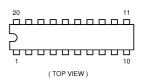
SAB-C161R1-LM



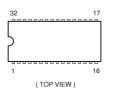
TC55257DFTL-70V-EL



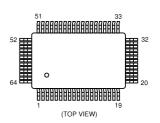
TDA7309D013TR



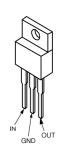
SDA9288X-B121 TDA9143/N2 TDA9144/N2 TDA9170T



TDA9320H-N1-518



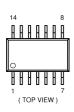
TEA6422DT LM393N



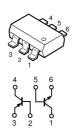
TOP209P



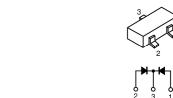
#### U2860B-BFPG3 74LVC08D



IMZ1A-T109



2SC2500-B 2SC2551-O 2SC2551O-TPE2



DAN202K

DAP202K

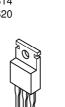
DAP202K-T-146

DAN202K-T-146

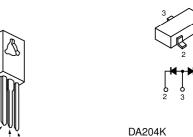
BC546B BC556B



IRF614 IRF620



2SC2688-LK 2SC3840K



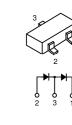
BF199 BF199-AMMO



DTA144EK DTA144EK-T146 DTC114EK DTC114YKA-T146 DTC123EK DTC123EK-T146

DTC144EK DTC144EK-T146 2SA1037K-T-146-R 2SA1162-G 2SC2412K-QR 2SC2412K-T-146-R

2SC3997CA



DA204K-T-146

BF421-AMMO



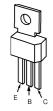
DTC124EKA-T146

2SA933AS-RT 2SA933AS-QRT 2SA933S-RT 2SC1740S-RT 2SC2785-HFE

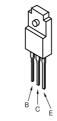
MARKING SIDE VIEW

RGP02-20EG23 D1NL20-TA D1NL20U-TR RGP10GPKG23 D1N54-TR RGP15GPKG23 EGP20G S2LA20F EL1Z 1SS133T-77 GP08D 1SS83 GP08DPKG23 1SS83TD R2K-V1

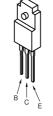
BF87-127



DTA144ESA DTA144ESA-TP DTC114ESA-TP DTC144ESA-TP 2SA1175-HFE 2SA733-K



2SC4793



2SD2396H



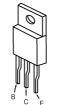
CATHODE ANODE

D10SC4M D10SC6M

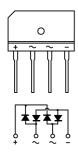




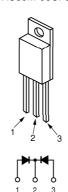
2SA1837



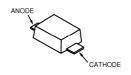
D4SB60L D4SB60L-F RBA-402L



ESAC39M-06C ESAC39M-06CF38



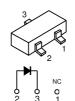
UF4005PKG23



ERA38-06TP1 ERA82-004TP1 GP08DPKG23 MTZJ-T-77-12 MTZJ-T-77-15 MTZJ-T-77-2.2B MTZJ-T-77-22 MTZJ-T-77-33C MTZJ-T-77-3.6B MTZJ-T-77-4.7B

MTZJ-T-77-5.6B MTZJ-T-77-6.8 MTZJ-T-77-7.5B MTZJ-T-77-9.1 MTZJ-33C RD5.6ESB2 RD9.1ESB2 PGKE200AG23 1SS119-25 1SS119-25TD

MA3033-L MA3033L-TX MA3056M-TX MA3062M-TX MA3030-H-(TX)



ANODE

CATHODE

MA3051L-TX

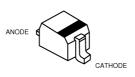




MA73-TX



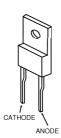
RD12SB2 UDZ-TE-17-6.2B UDZ-TE-17-6.8B UDZ-TE-12B



ERC04-06SE

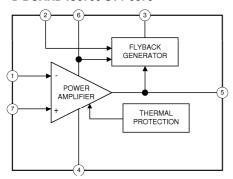


ERD08M-15

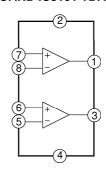


## 5-5. IC BLOCK DIAGRAMS

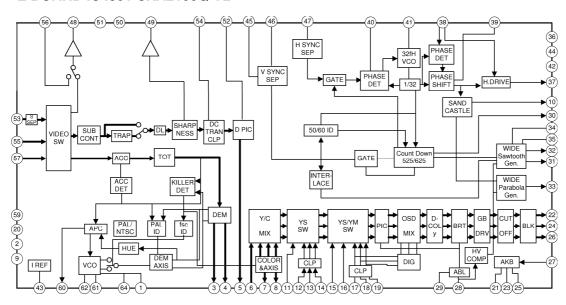
## **D BOARD IC6700 STV 9379**



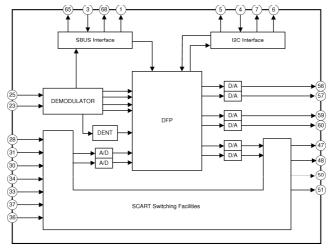
## J BOARD IC8101 TDA2822M



## E BOARD IC4301 CXA2100Q-TL



## J BOARD IC8200 MSP3410D-QA-B4



## SECTION 6 EXPLODED VIEWS

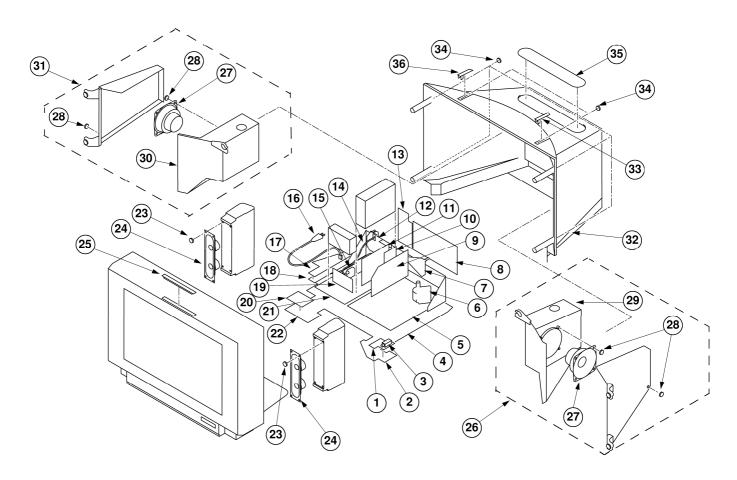
## NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remarks column.
- Items marked "\*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and marked  $\Delta$  are critical for safety

Replace only with the part number specified.

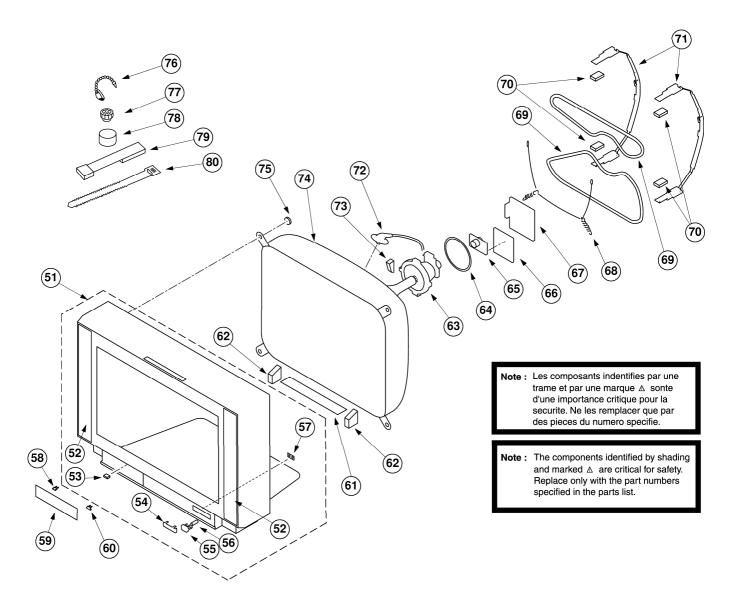
## 6-1. CHASSIS



REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
1	*A-1624-073-A	F BOARD, COMPLET	3	8	*A-1651-100-A	J BOARD, COMPLETE	
2	*4-204-551-01	BRACKET, F				(KV-28FX60A/28F	X60B/28FX60D/28FX60E/
		(KV-28FX60A/	28FX60D/28FX60E/28FX60K/			28FX60K/28F	X60R/28FX60U/32FX60A/
		28FX60R/	32FX60A/32FX60B/32FX60D/			32FX60D/32F	X60E/32FX60K/32FX60R/
		32FX60E/	32FX60K/32FX60R/32FX60U)			32FX60U)	
	*4-204-551-21	BRACKET, F (KV-2	3FX60B/28FX60U)		*A-1651-104-A	J BOARD, COMPLETE (	KV-32FX60B)
3 △	1-571-433-21	SWITCH, PUSH (AC	POWER)	9	*A-1640-329-A	D1 BOARD, COMPLETE	(KV-28FX60)
4	*4-204-549-01	BRACKET, MAIN			*A-1640-322-A	D1 BOARD, COMPLETE	(KV-32FX60)
5	*A-1640-328-A	D BOARD, COMPLET	E (KV-28FX60)	10	*A-1640-341-A	E BOARD, COMPLETE (	KV-28FX60)
	*A-1640-323-A	D BOARD, COMPLET	E (KV-32FX60)		*A-1640-337-A	E BOARD, COMPLETE (	KV-32FX60)
6 △	1-453-272-11	TRANSFORMER ASSY	FLYBACK	11	*A-1620-112-A	B1 BOARD, COMPLETE	
			(NX-4512/U2B4)	12	*4-204-477-01	BRACKET, J2	
7	*4-204-476-01	BRACKET, J1		13	*A-1648-016-A	U BOARD, COMPLETE	
				14	1-790-082-11	CABLE, RF	

REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
15	1-693-338-11	TUNER/VIF (AEP)		22	*4-204-550-01	BRACKET, H	
		(KV-28FX60A/	28FX60B/28FX60D/28FX60E/			(KV-28FX60A/28F	X60D/28FX60E/28FX60K/
		28FX60K/	28FX60R/32FX60A/32FX60D/			28FX60R/32F	X60A/32FX60B/32FX60D/
		32FX60E/	32FX60K/32FX60R)			32FX60E/32F	X60R/32FX60U)
	1-693-340-11	TUNER/VIF (FR) (K	V-32FX60B)		*4-204-550-21	BRACKET, H (KV-28FX	60B/28FX60U)
	1-693-339-11	TUNER/VIF (UK) (K	V-28FX60U/32FX60U)	23	4-039-358-01	SCREW (4X16), (+) B	V TAPPING
16 A	1-574-062-61	CORD, POWER (WITH	CONNECTOR)	24	1-529-153-11	SPEAKER (4.8X20CM)	
		(KV-28FX60A/28	FX60B/28FX60D/28FX60E/	25	0-553-509-00	SWITCH, ARRAY	
		28FX60K/28	FX60R/32FX60A/32FX60B/	26	A-1678-188-A	WOOFER (R) ASSY	27-29
		32FX60D/32	FX60E/32FX60K/32FX60R)	27	1-529-144-11	SPEAKER (13CM)	
Δ	1-590-762-21	CORD, POWER (WITH	UK PLUG)	28	4-039-355-11	SCREW (4X12), (+) B	V TAPPING
			(KV-28FX60U/32FX60U)	29	*A-1678-158-A	WOOFER (R) ASSY, SP	FX
17	*A-1624-074-A	F1 BOARD, COMPLET	E	30	*A-1678-157-A	WOOFER (L) ASSY, SP	FX
18	*4-204-552-01	BRACKET, F1		31	A-1678-150-A	WOOFER (L) ASSY	27,28,30
19	*A-1634-047-A	M BOARD, COMPLETE		32	4-204-459-01	COVER, REAR (KV-28F	X60)
20	*A-1646-170-A	H1 BOARD, COMPLET	E		4-204-367-21	COVER, REAR (KV-32F	X60)
21	*A-1630-978-A	A BOARD, COMPLETE		33	4-204-427-01	COVER, SCREW (L) (K	V-28FX60)
		(KV-28FX60A/28	FX60B/28FX60D/28FX60E/		4-204-369-01	COVER, SCREW (L) (K	V-32FX60)
		28FX60K/28	FX60R/32FX60A/32FX60D/	34	4-302-404-03	SCREW (WASHER HEAD)	(+P 4X16)
		32FX60E/32	FX60K/32FX60R)	35	*4-204-458-01	COVER, PORT	
	*A-1630-989-A	A BOARD, COMPLETE	(KV-28FX60U/32FX60U)	36	4-204-428-01	COVER, SCREW (R) (K	V-28FX60)
	*A-1630-988-A	A BOARD, COMPLETE	(KV-32FX60B)		4-204-370-01	COVER, SCREW (R) (K	V-32FX60)

## 6-2. PICTURE TUBE



REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
51	X-4200-417-2	BEZNET ASSY (KV-281	FX60) 52-57	60	4-045-250-01	DAMPER	
	X-4200-412-3	BEZNET ASSY (KV-321	FX60)	61	4-203-128-31	SHEET, BLOTTING (F	W-28FX60)
52	4-204-368-01	GRILLE, SPEAKER (KV	7-32FX60	62	*4-203-098-01	SUPPORTER, CRT (KV	7-32FX60)
53	4-042-192-01	CATCHER, PUSH		63 △	1-451-481-11	DEFLECTION YOKE (Y	(28RCV2) (KV-28FX60)
54	4-204-492-01	WINDOW, ORNAMENTAL		Δ	1-451-480-11	DEFLECTION YOKE (Y	(32RCV2) (KV-32FX60)
55	4-204-438-01	BUTTON, POWER		64	1-452-896-11	COIL, NA ROTATION	(RT200)
56	4-202-964-11	SPRING		65 △	8-453-011-11	NECK ASSY, NA299-M	
57	4-204-439-01	GUIDE, LIGHT		66	*A-1644-094-A	VM BOARD, COMPLETE	1
58	4-202-555-01	SHAFT, DOOR		67	*A-1638-123-A	C BOARD, COMPLETE	
59	4-204-435-31	DOOR (KV-28FX60A/28	FX60B/28FX60D/28FX60K/	68	4-369-318-51	SPRING, TENSION	
		28FX60R/28	3FX60U/32FX60A/32FX60D/	69 △	1-416-466-11	COIL, DEMAGNETIC	KV-28FX60)
		32FX60K/32	2FX60R)	Δ	1-416-769-11	COIL, DEMAGNETIC (	KV-32FX60)
	4-204-435-41	DOOR (KV-28FX60E/28 32FX60U)	BFX60U/32FX60B/32FX60E/	70	*4-202-988-01	CUSHION, BOX	

REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
71	*4-057-303-01	HOLDER, DGC (KV-28FX60)		75	4-036-188-01	SCREW, SELF TAPPING	
	*4-059-569-01	HOLDER, DGC (KV-32FX60)		76	4-308-870-00	CLIP, LEAD WIRE	
<b>72</b> △	1-251-317-31	CAP ASSY, HIGH-VOLTAGE		77	1-452-094-00	MAGNET, ROTATABLE DISK;	L5MM
73	3-704-495-01	SPACER, DY		78	1-425-032-00	MAGNET, DISK; 10MM	
74 A	8-737-785-05	PICTURE TUBE (W66LX010X)	(KV-28FX60)	79	X-4387-214-1	PERMALLOY ASSY, CORRECTION	ON
Δ	8-735-054-05	PICTURE TUBE (W76LLZ060X)	(SD-302)	80	3-701-007-00	BAND, BINDING	
			(KV-32FX60)				

## SECTION 7 ELECTRICAL PARTS LIST

Note: Les composants indentifies par une trame et par une marque △ sonte d'une importance critique pour la securite. Ne les remplacer que par des pieces du numero specifie.

Note: The components identified by shading and marked △ are critical for safety. Replace only with the part numbers specified in the parts list.

- Items marked "\*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- RESISTORS
- All resistors are in ohms.
- F: nonflammable.

When indicating parts by reference number, please include the board name.

CAPACITORS MF: mF, PF: mmF COILS MMH: mH, uH

**B**1

REF. NO.	PART.NO	DESCRIPTION	N	R	EMARK	REF. NO.	PART.NO	DESCRIPTIO	N	RE	MARK
	*A-1620-112-A	B1 BOARD, COL	MPLETE			C2340	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
		*****	*****			C2342	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
						C2343	1-126-961-11	ELECT	2.2MF	20%	50V
	< CAF	PACITOR >				C2344	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
						C2345	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
22301	1-126-934-11		220MF	20%	16V						
22302		CERAMIC CHIP	0.1MF	10%	25V	C2346	1-126-964-11		10MF	20%	50V
C2303	1-126-964-11		10MF	20%	50V	C2347	1-163-097-00			5%	50V
22304		CERAMIC CHIP		5%	50V	C2348	1-163-097-00			5%	50V
C2305	1-163-259-91	CERAMIC CHIP	220PF	5%	50V	C2349	1-164-004-11			10%	25V
						C2350	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2306		CERAMIC CHIP		5%	50V						
22307		CERAMIC CHIP		10%	25V	C2351		CERAMIC CHIP		10%	25V
22308	1-163-125-00			5%	50V	C2354	1-126-934-11		220MF	20%	16V
C2309	1-126-934-11		220MF	20%	16V	C2356		CERAMIC CHIP		10%	25V
C2311	1-126-963-11	ELECT	4.7MF	20%	50V	C2357		CERAMIC CHIP		10%	25V
						C2358	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2312	1-126-963-11		4.7MF	20%	50V						
22313	1-126-963-11		4.7MF	20%	50V	C2361		CERAMIC CHIP		10%	25V
2314		CERAMIC CHIP		5%	50V	C2362	1-164-004-11			10%	25V
2315		CERAMIC CHIP		10%	16V	C2363	1-126-934-11		220MF	20%	16V
22316	1-110-501-11	CERAMIC CHIP	0.33MF	10%	16V	C2364	1-102-518-11			5%	50V
						C2366	1-102-518-11	CERAMIC CHIP	33PF	5%	50V
22317		CERAMIC CHIP			16V						
22318		CERAMIC CHIP		10%	25V	C2367		CERAMIC CHIP		10%	25V
C2319		CERAMIC CHIP		10%	25V	C2368	1-164-004-11			10%	25V
C2320		CERAMIC CHIP		10%	16V	C2371	1-102-518-11			5%	50V
22323	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V	C2372	1-164-004-11			10%	25V
						C2374	1-102-518-11	CERAMIC CHIP	33PF	5%	50V
22324		CERAMIC CHIP		10%	25V						
2325		CERAMIC CHIP		10%	25V	C2377		CERAMIC CHIP		10%	25V
22327		CERAMIC CHIP		10%	25V	C2378	1-164-004-11			10%	25V
2328		CERAMIC CHIP		10%	25V	C2380	1-163-145-00			5%	50V
22329	1-164-004-11	CERAMIC CHIP	U.1MF	10%	25V	C2381		CERAMIC CHIP		10%	25V
20220	1 104 004 11	ODDANIC COTT	0 1WE	100	0.517	C2382	1-164-004-11	CERAMIC CHIP	U.IMF	10%	25V
C2330		CERAMIC CHIP		10%	25V	20202	1 164 004 11	GEDANTS SUITS	0 1ME	100	0.5**
C2331		CERAMIC CHIP		10%	25V	C2383		CERAMIC CHIP		10%	25V
22332	1-163-105-00			5%	50V	C2385		CERAMIC CHIP		10%	25V
22333		CERAMIC CHIP		10%	25V	C2387		CERAMIC CHIP		2% 1°	100V
22334	1-126-964-11	ELECT	10MF	20%	50V	C2388	1-136-479-11		0.001MF	1%	100V
72225	1_164 004 11	CERAMIC CHIP	0 1MP	100	2577	C2389	1-103-085-00	CERAMIC CHIP	7 P F	0.25PF	201
C2335				10%	25V 50V	02200	1 100 050 01	CEDAMIC	47DE	E 0.	E 037
C2337		CERAMIC CHIP		5% 20%		C2390	1-102-852-91		47PF	5% E%	50V
C2338	1-126-934-11		220MF	20%	16V	C2391	1-102-852-91		47PF	5%	50V
C2339	1-104-005-11	CERAMIC CHIP	U.4/MF		25V	C2704	1-126-934-11	ELECT	220MF	20%	16V

## B1

REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTI	ION		REMARK
C2705	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	R2304	1-216-051-00	RES,CHIP	1.2K	5%	1/10W
				R2305	1-216-065-91			5%	1/10W
	< CON	NECTOR >		R2306	1-216-295-91				
	. 3			R2307	1-216-049-91			5%	1/10W
N2100	1-695-301-11	CONNECTOR, BOARD TO	BOARD 40P	R2310	1-216-049-91		1K	5%	1/10W
	< FII	TER >		R2312	1-216-049-91	RES,CHIP	1K	5%	1/10W
				R2313	1-216-047-91			5%	1/10W
L2300	1-236-071-11	ENCAPSULATED COMPONE	NT	R2314	1-216-063-91				1/10W
L2301	1-233-767-21			R2315	1-216-113-00				1/10W
L2302		ENCAPSULATED COMPONE	NT	R2316	1-216-073-00				1/10W
L2303		ENCAPSULATED COMPONE				,			_,
L2305		ENCAPSULATED COMPONE		R2317	1-216-025-91	RES.CHIP	100	5%	1/10W
22300	1 250 0/1 11	21101120221125 0011201121	,	R2320	1-216-295-91		0	•	2, 2011
	< IC	>		R2321	1-216-295-91		0		
	<b>\ 1</b> C	•		R2321			1K	5%	1/10W
2300	0_750_001 41	IC LM78L05ACZ		R2337	1-216-049-91		0	Jo	T/ TOM
				1,2338	1-710-733-31	SHORT	U		
C2301		IC TLC2932IPW		20044	1 010 005 01	OHOD#	^		
22302		IC TDA8755T-T		R2341	1-216-295-91		0	<b>F</b> ^	1 /1 0==
22303		IC SAA4952WP/V1		R2345	1-216-025-91		100		1/10W
C2304	8-759-546-02	IC SAA4995WP-V1-T3		R2348	1-216-089-91		47K	5%	1/10W
				R2355	1-216-295-91		0	_	
C2305		IC TLC2932IPW		R2356	1-216-063-91	RES,CHIP	3.9K	5%	1/10W
C2306		IC TMS4C2972-28DTR							
C2307		IC SAA4991WP-V1-T3		R2358	1-216-295-91		0		
22308	8-759-572-55	IC P83C654KBA/585		R2359	1-216-001-00	RES,CHIP	10	5%	1/10W
22309	8-759-439-27	IC TMS4C2972-28DTR		R2360	1-216-085-00	RES,CHIP	33K	5%	1/10W
				R2361	1-216-085-00			5%	1/10W
22310	8-759-991-41	IC LM78L05ACZ		R2362	1-216-295-91		0		
C2311		IC SDA9280B22							
C2314		IC SN74LS221D		R2363	1-216-295-91	SHORT	0		
				R2364	1-216-057-00			5%	1/10W
	< COI	T. >		R2365	1-216-057-00				1/10W
	( 001	<b>.</b> ,		R2366	1-216-057-00	DES CHID			1/10W
2300	1-408-597-31	INDUCTOR 3.3UH		R2367	1-216-057-00				1/10W 1/10W
2300	1-410-435-21			12307	1 210 037-00	ALD , CHILF	2.21	J 0	1/101
2302	1-410-435-21			R2368	1-216-057-00	סדכ כעדם	2.2K	<b>5</b> 9	1/10W
2302				R2369	1-216-057-00	RES, CHIP	2.21	ار 10	1/10W 1/10W
	1-408-597-31 1-414-186-31						2.2K 2.2K		
2304	1-414-100-31	INDUCTOR 33UH		R2370	1-216-057-00				1/10W
2205	1 400 600 01	TNDHOMOD 4 ^		R2371	1-216-057-00		2.2K		1/10W
2305	1-408-603-31			R2372	1-216-057-00	KES, CHIP	2.2K	<b>5</b> 8	1/10W
2306	1-414-186-31				4 044 4				4 /4 0=-
2307	1-414-384-11	INDUCTOR 5.6UH		R2373	1-216-065-91		4.7K		1/10W
				R2374	1-216-049-91		1K	5%	1/10W
	< TRA	NSISTOR >		R2375	1-216-049-91		1K	5%	1/10W
				R2376	1-216-049-91	,	1K	5%	1/10W
2301	1-801-806-11	TRANSISTOR DTC144EKA	-T146	R2377	1-216-049-91	RES, CHIP	1K	5%	1/10W
2302	1-801-806-11	TRANSISTOR DTC144EKA	-T146						
2303	1-801-806-11	TRANSISTOR DTC144EKA	-T146	R2378	1-216-029-00	RES, CHIP	150	5%	1/10W
2304	1-801-806-11	TRANSISTOR DTC144EKA	-T146	R2379	1-216-076-00		13K	5%	1/10W
2305		TRANSISTOR 2SA1162-G		R2380	1-216-073-00		10K	5%	1/10W
				R2381	1-216-021-00		68	5%	1/10W
306	8-729-216-22	TRANSISTOR 2SA1162-G		R2382	1-216-049-91		1K	5%	1/10W
2307		TRANSISTOR 2SA1162-G							-,
-501	J .LJ LIV 22			R2383	1-216-049-91	RES CHID	1K	5%	1/10W
	/ 550	ISTOR >		R2384	1-216-049-91		68	5%	1/10W 1/10W
	\ KES	10100 >		R2385			330	ეგ 5%	
2200	1 216 051 00	DECCUID 1 22	E% 1/10W		1-216-037-00			Jð	1/10W
2300	1-216-051-00			R2386	1-216-295-91		0	Fo	1 /1 017
		RES, CHIP 1.5K	5% 1/10W	R2387	1-216-027-00	KES,CHIP	120	5%	1/10W
2301	1-216-053-00								
2301 2302 2303	1-216-053-00 1-216-067-00 1-216-059-00	RES, CHIP 5.6K	5% 1/10W	R2388	1-216-037-00		330	5%	1/10W

The components identified by shading and marked  $\Delta$  are critical for safety Replace only with the part number specified.

for sat Repla specif	ce only with the	part number							<b>B</b> 1	ī		F		F1
REF. NO.	PART.NO	DESCRIPTIO	V		RE	EMARK	REF. NO.	PART.NO	DESCRIPTION	<u> </u>		REI	MARK	
R2389 R2390 R2391 R2392 R2393	1-216-069-00 1-216-049-91 1-216-025-91 1-216-295-91 1-216-295-91	RES,CHIP RES,CHIP SHORT	6.8K 1K 100 0	5% 5% 5%	1/10W 1/10W 1/10W	Ī			PIN, CONNECTO	R (PC		) 5P		
R2394 R2395 R2396 R2397 R2398	1-216-295-91 1-216-295-91 1-216-295-91 1-216-295-91 1-216-295-91	SHORT SHORT SHORT	0 0 0 0				D7125	< DIO 8-719-030-11 <ic< td=""><td>DIODE SLA-570</td><td>)KT3F</td><td></td><td></td><td></td><td></td></ic<>	DIODE SLA-570	)KT3F				
R2410 R2411 R2412 R2413 R2415 R2711 R2712 R2713 R2714 R2715 R2716 R2717 R2718 R2719 R2720 R2721 R2722 R2723 R2724	1-216-037-00 1-216-037-00 1-216-688-11 1-216-059-11 1-216-295-91 1-216-295-91 1-216-295-91 1-216-295-91 1-216-295-91 1-216-295-91 1-216-295-91 1-216-295-91 1-216-295-91 1-216-295-91 1-216-295-91 1-216-295-91 1-216-295-91	RES, CHIP METAL CHIP RES, CHIP SHORT  RES, CHIP SHORT	330 5.1K	5% 5% 0.50% 0.50% 5%			******	<pre></pre>	CARBON TCH > SWITCH, PUSH *********** F1 BOARD, COM ************ ACITOR >	220 330 (AC PC	WER) *****	1/4W 1/4W ********	****** 300V	**
R2725 R2726 R2727 R2734 R2735 R2736	1-216-021-00 1-216-295-91 1-216-295-91 1-216-295-91 1-216-021-00 1-216-295-91 1-216-025-91	SHORT SHORT SHORT RES,CHIP	68 0 0 0 68 0	5% 5%	1/10W 1/10W 1/10W	ı	CN7622 CN7633 2	*1-580-843-11  < FUS  1-532-505-00  *1-533-725-11	TAB (CONTACT) PIN, CONNECTO E >  FUSE 5A/250V	OR (POW	ÆR)			
X2300		YSTAL > VIBRATOR, CEF	RAMIC				LF7627 A	△ 1-433-488-11		LINE F	TILTER			
*****	************ *A-1624-073-A	F BOARD, COMI	PLETE	*****	*****	*****			ISTOR >	1M		1/2W		
	*4-203-258-11	HOLDER, LED					VDR7626 2	1-801-073-31	VARISTOR ERZV	'14D471	•			
	< CAI	PACITOR >												
C7125	1-126-969-11	ELECT	220MF		20%	50V								



REF. NO.	PART.NO	DESCRIPTIO	N		REMARK	REF. NO.	PART.NO	DESCRIPTION	R	EMARK
	* A-1630-978-A	A BOARD, COM	PLETE			C1326	1-163-059-91	CERAMIC CHIP 0.01MF	10%	50V
		******				C1327	1-126-934-11		20%	10V
		(KV	-28FX60A/28	BFX60B/	28FX60D/28FX60E/	C1328	1-163-117-00	CERAMIC CHIP 100PF	5%	50V
		•			32FX60A/32FX60D/	C1601	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
			32FX60E/3			C1602	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
	* A-1630-988-A	A BOARD, COM	PLETE (KV-3	2FX60B	)	C1603	1-126-933-11	ELECT 100MF	20%	16V
		******	****			C1604	1-126-933-11	ELECT 100MF	20%	16V
	* A-1630-989-A	A BOARD, COM	PLETE (KV-2	8FX60U	/32FX60U)	C1605	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
		*******	****			C1607	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
						C1608	1-126-934-11	ELECT 220MF	20%	16V
	4-204-625-01									
	4-382-854-11			·)		C1609		CERAMIC CHIP 0.1MF	10%	25V
	*4-931-401-01	HEAT SINK, V	.OUT			C1610		CERAMIC CHIP 0.1MF	10%	25V
						C1611	1-126-933-11		20%	16V
	< CAE	PACITOR >				C1612		CERAMIC CHIP 0.1MF	10%	25V
						C1613	1-126-933-11	ELECT 100MF	20%	16V
1100	1-104-664-11		47MF	20%	25V					
1101	1-104-666-11		220MF	20%	25V	C1614		CERAMIC CHIP 0.1MF	10%	25V
1126	1-162-568-11			10%	16V	C1615		CERAMIC CHIP 0.1MF	10%	25V
1127	1-130-785-81		0.47MF	5%	50V	C1617	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
1128	1-163-135-00	CERAMIC CHIP	560PF	5%	50V			NEGROD >		
1129	1-130-777-00	FTT.M	0.1MF	5%	63V		< CON	NECTOR >		
1130	1-163-017-00			ეგ 10%	50V	CN1111	*1-564-520-11	PLUG, CONNECTOR 5P		
1130	1-163-251-11			5%	50V 50V	CN1111		CONNECTOR, BOARD TO	מחו חמגסם	
1132	1-163-021-91			3° 10%	50V	CN1200		CONNECTOR, BOARD TO		
1132	1-163-021-91			10%	25V	CN1401 CN1600		CONNECTOR ASSY 20P	POWIN #01	
						CN1601		CONNECTOR ASSY 20P		
1134	1-126-961-11		2.2MF	20%	50V					
1135	1-164-004-11			10%	25V	CN1602		CONNECTOR ASSY 20P		
1136	1-164-004-11			10%	25V	CN1700		PIN, CONNECTOR 4P	44-	
21137	1-126-943-11		2200MF	20%	25V	CN1701		CONNECTOR, BOARD TO	BOARD 10P	
C1138	1-126-943-11	ELECT	2200MF	20%	25V	CN1702 CN1703		PIN, CONNECTOR 5P PLUG, CONNECTOR 11P		
21139	1-104-329-11	CERAMIC CHIP	0 1MF	10%	50V	CNITOS	1 304 314 11	THOS, COMMECTOR III		
1140	1-128-560-11		22MF	20%	100V	CN1801	1-695-299-11	CONNECTOR, BOARD TO	BOARD 50P	
21151	1-162-568-11			10%	16V	CN1901		CONNECTOR, BOARD TO		
1152	1-130-785-11		0.47MF	5%	50V	CNISOI	1 033 230 11	COMMECTOR, DOMES TO	DOMED TO	
1153		CERAMIC CHIP		5%	50V		< DIO	DE >		
1154	1-130-777-00	FILM	0.1MF	5%	63V	D1100	8-719-914-43	DIODE DAN202K		
1155	1-163-017-00			10%	50V	D1101		DIODE DAP202K		
1156	1-163-251-11			5% 5%	50V	D1102		DIODE DAN202K		
1157	1-163-021-91			10%	50V	D1103		DIODE DAN202K		
21158	1-164-004-11			10%	25V	D1401		DIODE RD6.2M-B1		
:1159	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	D1402	8-719-105-99	DIODE RD6.2M-B1		
1160	1-164-004-11			10%	25V	D1403		DIODE RD6.2M-B1		
C1161	1-104-329-11			10%	50V	D1404		DIODE RD6.2M-B1		
C1162	1-128-560-11		22MF	20%	100V	D1626		DIODE DAN202K		
21177	1-164-004-11	CERAMIC CHIP		10%	25V	D1627		DIODE DAN202K		
21179	1-126-964-11	ELECT	10MF	20%	50V	D1629	8-719-914-43	DIODE DAN202K		
C1180	1-126-943-11	ELECT	2200MF	20%	25V					
C1181	1-126-943-11		2200MF	20%	25V		< FER	RITE BEAD >		
C1182	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V					
C1183	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	FB1126 FB1151		LEAD, JUMPER (5.0MM) LEAD, JUMPER (5.0MM)		
			A 47ME	10%	16V	101131	1 222-202-00	LEAD, COMEEN (J.OMM)		
C1184	1-107-823-11	CERAMIC CHIP	U.4/MF	TNU	T01					



REF. NO.	PART.NO	DESCRIPTIO	N	REMARK	REF. NO.	PART.NO	DESCRIPTION			REMARK
	< IC	<b>&gt;</b>			R1128	1-216-041-00	RES,CHIP	470	5%	1/10W
					R1151	1-216-631-11	METAL CHIP	150	0.50%	1/10W
IC1126	8-759-544-25	IC TDA7482			R1152	1-216-075-00	RES,CHIP	12K		1/10W
IC1151	8-759-544-25	IC TDA7482			R1153	1-216-041-00		470		1/10W
IC1176	8-759-333-24	IC LM1876TF			R1176	1-216-063-91		3.9K		1/10W
IC1400	8-752-072-94	IC CXA1875AM-	r4				,			
IC1601	8-759-457-44				R1179	1-216-357-00	METAL OXIDE	4.7	5%	1W F
					R1182	1-216-081-00		22K		1/10W
IC1602	8-759-544-09	IC KA278R05TU			R1183	1-216-045-00		680		1/10W
IC1603		IC L78L08ACZ-			R1185		RES, CHIP			1/10W
IC1604	8-759-544-13		. <del></del>		R1201	1-216-089-91		47K		1/10W
IC1605	8-759-544-11								••	-/
					R1202	1-216-083-00	RES.CHIP	27K	5%	1/10W
	< CO:	TT. >			R1203	1-216-083-00		27K		1/10W
	` 00.	,			R1204	1-216-071-00		8.2K		1/10W
L1126	1-416-857-11	TMINITOTION	65UH		R1205	1-216-089-91		47K		1/10W
L1127	1-414-158-11		2.2UH		R1205	1-216-073-91		10K		1/10W
L1127					VIZUO	1-210-0/3-00	NEO, CHIP	TOV	Jo	1/10M
	1-414-158-11		2.2UH		D1207	1 016 065 01	DEC CUID	4 70	E 0.	1 /1 01
L1151	1-416-857-11		65UH		R1207	1-216-065-91		4.7K		1/10W
L1152	1-414-158-11	INDUCTOR	2.2UH		R1208	1-216-089-91		47K		1/10W
-11-0	4 444 4=0 4-	TUDITOTO	A A		R1209	1-216-065-91		4.7K		1/10W
L1153	1-414-158-11		2.2UH		R1210	1-216-089-91		47K		1/10W
L1326	1-414-183-41	INDUCTOR	10UH		R1226	1-216-073-00	RES, CHIP	10K	5%	1/10W
	< TR	ANSISTOR >			R1227	1-216-073-00	RES,CHIP	10K	5%	1/10W
					R1228	1-216-073-00		10K		1/10W
Q1100	8-729-216-22	TRANSISTOR 25	SA1162-G		R1229	1-216-073-00		10K		1/10W
Q1201		TRANSISTOR 25			R1230	1-216-055-00		1.8K		1/10W
Q1202		TRANSISTOR 25			R1232	1-216-295-91		0	•	-/
Q1203		TRANSISTOR 25				1 210 250 51	55.1.2	•		
Q1204		TRANSISTOR 25			R1233	1-216-049-91	RES CHIP	1K	5%	1/10W
Ž1204	0 723 020 00	TIVANDIDION 2.	JCJVJZ EF		R1326	1-216-025-91		100		1/10W
Q1226	0_720_620_06	TRANSISTOR 25	こころしまつ 一世世		R1327	1-216-025-91		100		1/10W
							,			
Q1227		TRANSISTOR 25			R1328	1-216-073-00		10K	5% = 0.	1/10W
Q1229					R1329	1-216-025-91	RES, CHIP	100	5%	1/10W
Q1326		TRANSISTOR 25			21222	1 016 041 00		470	<b>F</b> 0	1 /1 0-1
Q1327	8-729-216-22	TRANSISTOR 2	SA1162-G		R1330		RES, CHIP	470		1/10W
			<b></b> -		R1331	1-216-041-00		470		1/10W
Q1328		TRANSISTOR 25			R1332	1-216-041-00		470		1/10W
Q1329		TRANSISTOR 25			R1333		RES,CHIP	12K		1/10W
Q1400		TRANSISTOR KS			R1334	1-216-069-00	RES,CHIP	6.8K	5%	1/10W
Q1601		TRANSISTOR 25							_	
Q1626	8-729-620-06	TRANSISTOR 25	SC3052-EF		R1335	1-216-025-91	,	100	5%	1/10W
					R1336	1-216-041-00		470		1/10W
	< RES	SISTOR >			R1337	1-216-041-00		470	5%	1/10W
					R1338	1-216-001-00	RES,CHIP	10	5%	1/10W
JR1601	1-216-296-91	SHORT	0		R1339	1-216-041-00	RES,CHIP	470	5%	1/10W
R1001	1-216-295-91	SHORT	0		R1340	1-216-043-91	RES,CHIP	560	5%	1/10W
R1002	1-216-295-91		0		R1400	1-216-053-00		1.5K	5%	1/10W
R1003	1-216-295-91		0		R1401	1-216-081-00		22K		1/10W
R1004	1-216-295-91		0		R1403	1-216-295-91		0	-	•
R1005	1-216-295-91		0		R1404	1-216-295-91		0		
R1006	1-216-295-91	SHORT	0		R1601	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R1100	1-216-025-91		100 5%	1/10W	R1602	1-216-691-11		47K		1/10W
R1101	1-216-057-00	,	2.2K 5%	1/10W	R1603	1-216-025-91		100	5%	1/10W
R1101	1-216-057-00		2.2K 5%	1/10W	R1605	1-216-023-91		100 1K		1/10W
R1126	1-216-631-11		150 0.50%		R1609	1-216-049-91		47K	5%	1/10W
VIITO	1 210-031-11	ABIAH CHIF	130 0.306	1/ 1/11	NT003	1 210-003-31	MED, CHIP	1/1	J 0	1/ 1VII
R1127	1-216-075-00	RES,CHIP	12K 5%	1/10W	R1610	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
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REF. NO.	PART.NO	DESCRIPTIO	N	F	REMARK	REF. NO.	PART.NO	DESCRIPTION	R	EMARK
R1615	1-216-025-91	RES,CHIP	100 5%	1/10	W	C9504	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
R1616	1-216-304-11		3.3 5%			C9505	1-104-665-11	ELECT 100MF	20%	25V
R1617	1-216-304-11	,	3.3 5%	1/10		C9506		CERAMIC CHIP 100PF	5%	50V
R1618	1-216-295-91	,	0	-,		C9507		CERAMIC CHIP 0.22MF	10%	25V
R1621	1-216-027-00		120 5%	1/10	W	C9508		CERAMIC CHIP 0.22MF	10%	25V
		1427,0112		-, -				VIIII VIIII		201
R1622	1-216-029-00	RES.CHIP	150 5%	1/10	W	C9509	1-163-251-11	CERAMIC CHIP 100PF	5%	50V
R1623	1-216-033-00		220 5%	1/10		C9510		CERAMIC CHIP 0.22MF	10%	25V
R1625	1-216-295-91		0	-, -0		C9511		CERAMIC CHIP 0.1MF	10%	25V
			•			C9512		CERAMIC CHIP 0.1MF	10%	25V
	< TU	NER >				C9513		CERAMIC CHIP 0.1MF	10%	25V
						*****				
TU1326	1-693-338-11	TUNER/VIF (A	EP)			C9514	1-163-235-11	CERAMIC CHIP 22PF	5%	50V
		(KV-28FX60A/	•	FX60D/2	8FX60E/	C9515		CERAMIC CHIP 22PF	5%	50V
			/28FX60R/32		· ·	C9516		CERAMIC CHIP 100PF	5%	50V
			/32FX60K/32		•	C9517		CERAMIC CHIP 0.01MF	10%	50V
	1-693-340-11	TUNER/VIF (FE				C9518		CERAMIC CHIP 0.22MF	10%	25V
		TUNER/VIF (UP			X60U)					
		, (	.,		,	C9519	1-126-964-11	ELECT 10MF	20%	50V
******	******	******	*****	*****	*****	C9520		CERAMIC CHIP 100PF	5%	50V
									•	
	*A-1634-047-A	M BOARD, COM					< CON	NECTOR >		
						CN9101	1-695-301-11	CONNECTOR, BOARD TO BOA	ממע מפ	
	< CA	PACITOR >				CNJIVI	1 033 301 11	COMMECTOR, DOMED TO DOM	.D 401	
							< DIC	DE >		
C9100	1-115-340-11	CERAMIC CHIP	0.22MF	10%	25V		, , ,			
C9101		CERAMIC CHIP		5%	50V	D9100	8-719-988-62	DIODE 1SS355		
C9102		CERAMIC CHIP		5%	50V	D9101		DIODE 1SS355		
C9104	1-104-664-11		47MF	20%	25V	D9102		DIODE 1SS355		
C9105		CERAMIC CHIP		10%	25V	D9103		DIODE 1SS355		
03103	1 104 004 11	CDIVANIC CIIII	V. 1111	100	231	D9104		DIODE UDZ-TE-17-6.8B		
C9110	1-165-321-11	CERAMIC CHIP	0 68MF	10%	16V	55104	0 713 030 03	DIODE ODE 18 17 0.0B		
C9111		CERAMIC CHIP		10%	25V	D9105	8-710-011-13	DIODE DAN202K		
C9112		CERAMIC CHIP		10%	25V	D9107		DIODE 02CZ5.6-TE85L		
C9113		CERAMIC CHIP		10%	25V	D9108		DIODE DAP202K		
C9114		CERAMIC CHIP		10%	25V	D9109		DIODE RD5.6M-B2		
0,111	1 101 001 11	ODIABILO OIIII	V. 1111	100	237	D9110		DIODE DAN202K		
C9115	1-115-340-11	CERAMIC CHIP	0 22MF	10%	25V	23220	0 /15 511 15	DIODE DIMILOLIN		
	1-164-004-11			10%		D9111	8-719-105-91	DIODE RD5.6M-B2		
C9118	1-104-664-11		47MF	20%	25V	33111	0 713 100 31	51052 150. W. 5E		
C9119		CERAMIC CHIP		5%	50V		< ₽TI	TER >		
C9113		CERAMIC CHIP		5%	50V		\ F11	LUL /		
JJ121	1 103 231 11	OPPRESSED ONLY	10011	<b>J</b> 0	507	FL9101	1-236-071-11	ENCAPSULATED COMPONENT		
C9122	1-115-340-11	CERAMIC CHIP	0 22MF	10%	25V	FL9500		ENCAPSULATED COMPONENT		
C9122		CERAMIC CHIP		10%	25V 25V	FL9501		ENCAPSULATED COMPONENT		
C9123		CERAMIC CHIP		10%	25V 25V	113301	1-230-0/1-11	ENONE SOUNTED COMEONENT		
C9124 C9125		CERAMIC CHIP		10%	25V 25V		< IC	`		
C9125		CERAMIC CHIP		10% 5%	50V		<b>\ 1</b> C	•		
07120	1 103-103-00	CHICAMIC CHIP	JJ11	<b>J</b> 0	J0 ¥	IC9100	8-759-988-13	TC T.M393PS		
C9127	1-163-105-00	CERAMIC CHIP	33 <b>P</b> F	5%	50V	IC9100		IC MB3793-42PNF		
C9127		CERAMIC CHIP		ა 5%	50V	IC9104 IC9105		IC SAB-C161R1-LM		
C9128		CERAMIC CHIP		აგ 5%	50V	IC9103		IC TC55257DFTL-70V		
C9129		CERAMIC CHIP		5% 5%	50V	IC9107		IC M24C32-BN6		
C9130		CERAMIC CHIP		5% 5%	50V 50V	109100	0 133-331-04	TO METORE DING		
03131	T-102-102-00	CERAPIC CHIP	JJEE	Jo	J0 V	IC9110	8-759-559-96	TO UPPANGART		
C0122	1_164_004 11	CERAMIC CHIP	0 1ME	1 / 0.	25V	IC9110 IC9500		IC MC74F00M-T2		
C9132		CERAMIC CHIP		10% 10%	25V 25V	IC9500 IC9501		IC MB814400C-70PJN-ER		
C9400				10% 20%		IC9501 IC9502				
C9500	1-104-664-11		47MF	20% 20%	25V	103207	8-759-438-62	IC SDWOZ 12		
C9502	1-104-664-11		47MF	20% 20%	25V					
C9503	1-126-964-11	LLECT	10MF	20%	50V					



REF. NO.	PART.NO	DESCRIPTION	N		REMARK	REF. NO.	PART.NO	DESCRIPTIO	N		REMARK	
	< CO:	IL >				R9145	1-216-049-91	,	1K	5%	1/10W	
						R9146	1-216-049-91	RES,CHIP	1K	5%	1/10W	
L9400		INDUCTOR CHIE				R9147	1-216-049-91		1K	5%	1/10W	
L9401	1-412-029-11	INDUCTOR CHIE	10UH			R9148	1-216-073-00		10K	5%	1/10W	
	< TR	ANSISTOR >				R9149	1-216-025-91	RES,CHIP	100	5%	1/10W	
	V 110	and to to to				R9150	1-216-025-91	RES, CHIP	100	5%	1/10W	
Q9100	8-729-620-06	TRANSISTOR 2S	C3052-1	ΣF		R9151	1-216-025-91	RES, CHIP	100	5%	1/10W	
Q9101	8-729-620-06	TRANSISTOR 2S	C3052-1	ΣF		R9153	1-216-025-91	RES, CHIP	100	5%	1/10W	
Q9102	8-729-216-22	TRANSISTOR 2S	SA1162-0	3		R9159	1-216-069-00		6.8K		1/10W	
Q9103		TRANSISTOR 2S				R9161	1-216-069-00	RES,CHIP	6.8K	5%	1/10W	
Q9105	8-729-620-06	TRANSISTOR 2S	3C3U52-1	SF.		R9162	1-216-069-00	RES.CHIP	6.8K	5%	1/10W	
Q9106	8-729-027-46	TRANSISTOR DI	C114YK	A-T14	<u>.</u>	R9164	1-216-069-00	,	6.8K		1/10W	
Q9107		TRANSISTOR DT				R9166	1-216-073-00		10K	5%	1/10W	
Q9108		TRANSISTOR DI				R9168	1-216-069-00		6.8K		1/10W	
Q9109		TRANSISTOR DI				R9169	1-216-069-00		6.8K		1/10W	
Q9110	8-729-620-06	TRANSISTOR 2S	C3052-1	ZF								
						R9172	1-216-069-00		6.8K	5%	1/10W	
Q9500		TRANSISTOR 2S				R9173	1-216-295-91		0			
Q9501		TRANSISTOR 2S				R9174	1-216-025-91		100	5%	1/10W	
Q9502		TRANSISTOR 2S				R9175	1-216-025-91	,	100	5%	1/10W	
Q9503 Q9504		TRANSISTOR DI				R9176	1-216-025-91	RES,CHIP	100	5%	1/10W	
2500.	1 001 000 11				,	R9177	1-216-025-91	RES, CHIP	100	5%	1/10W	
	< RE	SISTOR >				R9178	1-216-025-91		100	5%	1/10W	
						R9184	1-216-025-91	,	100	5%	1/10W	
R9100	1-216-073-00	RES, CHIP	10K	5%	1/10W	R9185	1-216-025-91		100	5%	1/10W	
R9101	1-216-033-00		220	5%	1/10W	R9186	1-216-025-91		100	5%	1/10W	
R9102	1-216-033-00	RES,CHIP	220	5%	1/10W							
R9103	1-216-025-91	RES, CHIP	100	5%	1/10W	R9187	1-216-065-91	RES, CHIP	4.7K	5%	1/10W	
R9104	1-216-073-00	RES,CHIP	10K	5%	1/10W	R9188	1-216-025-91	RES, CHIP	100	5%	1/10W	
						R9189	1-216-025-91		100	5%	1/10W	
R9105	1-216-073-00		10K	5%	1/10W	R9190	1-216-025-91		100	5%	1/10W	
R9107	1-216-025-91		100	5%	1/10W	R9191	1-216-025-91	RES,CHIP	100	5%	1/10W	
R9108	1-216-025-91			5% = °	1/10W	-0100	4 044 005 04		400		4 /4 0	
R9109	1-216-073-00			5% •••	1/10W	R9192	1-216-025-91		100	5% 5°	1/10W	
R9110	1-216-081-00	RES,CHIP	22K	5%	1/10W	R9193	1-216-097-91	,	100K		1/10W	
R9111	1-216-025-91	DEC CUID	100	EQ	1/10W	R9194 R9195	1-216-097-91 1-216-097-91	,	100K 100K		1/10W 1/10W	
R9111	1-216-025-91	,	100	5% 5%	1/10W 1/10W	R9195	1-216-037-91		100K	5%	1/10W 1/10W	
R9112	1-216-023-91		220	5%	1/10W 1/10W	K9190	1-210-073-00	RES, CHIP	IUK	26	1/10W	
R9114	1-216-083-00			5%	1/10W	R9197	1-216-073-00	RES CHID	10K	5%	1/10W	
R9115	1-216-081-00		22K	5%	1/10W	R9500	1-216-295-91	,	0	30	1/ 1011	
				•	_,	R9501	1-216-295-91		Ö			
R9116	1-216-073-00	RES, CHIP	10K	5%	1/10W	R9502	1-216-295-91		0			
R9117	1-216-073-00			5%	1/10W	R9504	1-216-041-00		470	5%	1/10W	
R9119	1-216-073-00		10K	5%	1/10W			,			·	
R9120	1-216-073-00			5%	1/10W	R9505	1-216-051-00	RES,CHIP	1.2K	5%	1/10W	
R9121	1-216-017-91	RES, CHIP	47	5%	1/10W	R9506	1-216-073-00	RES, CHIP	10K	5%	1/10W	
						R9507	1-216-097-91	RES, CHIP	100K	5%	1/10W	
R9122	1-216-049-91	RES,CHIP	1K	5%	1/10W	R9508	1-216-017-91	RES, CHIP	47	5%	1/10W	
R9123	1-216-073-00		10K	5%	1/10W	R9509	1-216-049-91	RES, CHIP	1K	5%	1/10W	
R9127	1-216-049-91		1K	5%	1/10W							
R9138	1-216-049-91		1K	5%	1/10W	R9510	1-216-017-91		47	5%	1/10W	
R9140	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	R9511	1-216-049-91		1K	5%	1/10W	
			4.		4.44	R9512	1-216-017-91		47	5%	1/10W	
R9141	1-216-049-91		1K	5% 	1/10W	R9513	1-216-017-91		47	5%	1/10W	
R9142	1-216-041-00			5% = °	1/10W	R9514	1-216-017-91	RES, CHIP	47	5%	1/10W	
R9143	1-216-049-91		1K	<b>5</b> %	1/10W	20545	1 010 005 55	4114D#	•			
R9144	1-216-057-00	RES,CHIP	2.2K	<b>5</b> 8	1/10W	R9515	1-216-295-91	SHORT	0			

The components identified by shading and marked ⚠ are critical for safety Replace only with the part number specified.

M	С							fo R	r safety		e part number
REF. NO.	PART.NO	DESCRIPTI	ON	R	EMARK	REF. NO.	PART.NO	DESCRIPT	ION	F	REMARK
R9516	1-216-295-91		0			C5381	1-162-116-91		680PF	10%	2KV
R9517	1-216-295-91		0 1v Eq	1 /1 0	7	C5382	1-162-114-71	CERAMIC	0.0047MF		2KV
R9518 R9519	1-216-049-91 1-216-039-00		1K 5% 390 5%	•			< CUX	NECTOR >			
R9519	1-216-039-00		390 5%				\ COI	MECTOR /			
<b></b>	***	,		-, -•		CN5400	1-564-511-11	PLUG, CONNE	CTOR 8P		
R9521	1-216-039-00	•	390 5%	1/10	V	CN5511	1-695-915-21	•			
R9522	1-216-295-91		0			CN5522	1-695-915-21			ion) :-	
R9523 R9524	1-216-295-91 1-216-295-91		0			CN5600	1-508-766-12	PIN, CONNEC	TOR (5MM PIT	CH) 4P	
R9524 R9525	1-216-295-91		0 2.2K 5%	1/10	Ī		< DIC	DE >			
•	, , , , , , , , , , , , , , , , ,	/		_, _v			, 510				
R9526	1-216-057-00	,	2.2K 5%			D5300	8-719-921-20				
R9527	1-216-057-00		2.2K 5%			D5302	8-719-989-09				
R9528 R9529	1-216-025-91 1-216-025-91		100 5% 100 5%	, .		D5325 D5326	8-719-921-20 8-719-923-58				
R9529 R9530	1-216-025-91		100 5%	· .		D5326	8-719-923-58 8-719-989-09				
12000	1 110 025 51	imo j onite	200 30	-/ -0	•	55521	5 ,13 303 03	21000 10000			
R9531	1-216-295-91	SHORT	0			D5350	8-719-921-20	DIODE 1SS11	19-25TD		
R9532	1-216-061-00	RES,CHIP	3.3K 5%	1/10	v.	D5351	8-719-991-33				
		VOM37				D5353	8-719-989-09				
	< CR!	YSTAL >				D5375 D5376	8-719-991-33 8-719-991-33				
X9101	1-781-107-21	RESONATOR				סוככע	0-112-331-33	מססדת דמסון	)J1-11		
X9500	1-760-551-21		ERAMIC			D5377	8-719-936-83	DIODE GP08D	PKG23		
		,				D5378	8-719-923-84				
******	******	******	******	******	*****	D5379	8-719-982-96				
	+ % 1 <i>C</i> 20 102 =	0 00100 00	MDI EPE			D5380	8-719-982-96				
•	* A-1638-123-A	C BOARD, CO				D5381	8-719-031-34	DIODE RGP02	:-20EG23		
							<ic< td=""><td>&gt;</td><td></td><td></td><td></td></ic<>	>			
	1-671-108-11										
	4-382-854-11	SCREW (M3X1	0), P, SW			IC5300	8-759-360-83				
	/ CX1	PACITOR >				IC5325 IC5350	8-759-360-83 8-759-360-83				
	< CAI	EUCTION >				103330	0-135-300-03	TO IDMOTITO/	117		
C5301	1-102-129-91		0.01MF	10%	50V		< SOC	KET >			
C5302	1-128-525-91		470MF	20%	16V						
C5304	1-107-657-91		1MF	20% 10%	350V	J5375 🗵	1-540-071-22	SOCKET, CRI			
C5305 C5306	1-137-052-91 1-102-157-91		0.047MF 560PF	10% 10%	400V 500V		< COI	T. >			
63300	1 107-131-31	CHAMIC	JOVEE	100	J004		\ CO1	/			
C5325	1-102-959-91	CERAMIC	22PF	5%	50V	L5300	1-408-599-41	INDUCTOR	4.7UH		
C5326	1-102-157-91		560PF	10%	500V	L5325	1-408-599-41		4.7UH		
C5327	1-102-129-91		0.01MF	10%	50V	L5350	1-408-599-41		4.7UH		
C5328	1-128-525-91		470MF	20% 20%	16V	L5375	1-410-671-41		47UH	E۱	
C5329	1-107-967-91	ELECT	1MF	20%	400V	L5376	1-532-637-91	LINK, IC IA/	T204 (TCL-E2	.5)	
C5350	1-107-907-91	ELECT	22MF	20%	50V	L5377	1-414-183-40	INDUCTOR	10UH		
C5352	1-102-157-91		560PF	10%	500V	1					
C5353	1-102-129-91		0.01MF	10%	50V	1	< TRA	NSISTOR >			
C5354	1-128-525-91		470MF	20%	16V	05000	0 700 004 00	mp1	00005510 ===	10	
C5355	1-107-657-91	ELECT	1MF	20%	350V	Q5300 05325	8-729-204-98 8-729-204-98		2SC25510-TPE 2SC25510-TPE		
C5356	1-137-052-91	FTT.M	0.047MF	10%	400V	Q5325 Q5350	8-729-204-98				
C5375	1-107-902-91		1MF	20%	50V	Q5350 Q5351	8-729-029-37		2SC25510-TPE		
C5377	1-162-115-91		330PF	10%	2KV	Q5375	8-729-900-95		2SC1740S-RT		
C5378	1-162-116-91		680PF	10%	2KV	1 -					
C5379	1-162-114-71	CERAMIC	0.0047MF		2KV	Q5376	8-729-026-40	TRANSISTOR	2SA933AS-RT		
GE200	1 107 250 01	DI DAM	1000	000	0.5047	1					
C5380	1-107-652-91	ELECT	10MF	20%	250V						
						1					





REF. NO.	PART.NO	DESCRIPTIO	N		RE	EMARK	REF. NO.	PART.NO	DESCRIPTION		REMARK
	< RES	SISTOR >						*A-1640-329-A	D1 BOARD, COMPLE		))
R5300	1-247-831-91	CARBON	1K	5%	1/4W			*A-1640-322-A	D1 BOARD, COMPLI	ETE (KV-32FX60	))
R5301	1-247-823-91	CARBON	470	5%	1/4W				*****		•
R5302	1-247-813-91		180	5%	1/4W						
R5303	1-247-831-91	CARBON	1K	5%	1/4W			4-382-854-11	SCREW (M3X10),	P, SW (+)	
R5304	1-202-565-81		470	20%	1/2W					, , ,	
R5305	1-215-926-51	METAL OXIDE	33K	5%	3W	F		< CAF	ACITOR >		
R5306	1-247-845-91		3.9K		1/4W	•	C6100	1-136-165-00	FTT.M 0	1MF 5%	50V
R5307	1-247-863-91		22K	5%	1/4W		C6101	1-136-165-00		1MF 5%	50V
R5325	1-247-831-91		1K	5%	1/4W		C6102	1-136-165-00		1MF 5%	50V
R5326	1-247-823-91		680	5%	1/4W		C6103		CERAMIC CHIP 0.		50V
13320	1 247 025 51	CARDON	000	3.	1/ 411		C6104		CERAMIC CHIP 0.		50V
R5327	1-247-813-91	CARBON	180	5%	1/4W						
R5328	1-249-417-11	CARBON	1K	5%	1/4W		C6105	1-126-967-11	ELECT 47	MF 20%	50V
R5329	1-202-565-81	SOLID	470	20%	1/2W		C6106	1-163-133-00	CERAMIC CHIP 47	OPF 5%	50V
R5330	1-215-926-51	METAL OXIDE	33K	5%	3W	F	C6108	1-163-021-91	CERAMIC CHIP 0.	01MF 10%	50V
R5331	1-247-845-91	CARBON	3.9K	5%	1/4W		C6109	1-126-967-11	ELECT 47	MF 20%	50V
							C6110	1-126-967-11	ELECT 47	MF 20%	50V
R5332	1-247-863-91		22K	5%	1/4W				<b></b>		
R5350	1-249-417-11		1K	5%	1/4W		C6111	1-126-967-11			50V
R5351	1-247-823-91		470	5%	1/4W		C6112		CERAMIC CHIP 0.		50V
R5352	1-247-829-91		820	5%	1/4W		C6113		CERAMIC CHIP 0.		50V
R5353	1-247-839-91	CARBON	2.2K	5%	1/4W		C6114	1-126-964-11			50V
R5354	1-247-833-91	CADRON	1.2K	<b>5</b> &	1/4W		C6115	1-163-005-11	CERAMIC CHIP 47	OPF 10%	50V
R5355	1-247-813-91		180	5%	1/4W		C6116	1_163_275_11	CERAMIC CHIP 0.	001MF 5%	50V
R5356	1-249-417-11		1K	5%	1/4W		C6117		CERAMIC CHIP 0.		50V
R5357	1-202-565-81		470	20%	1/2W		C6117		CERAMIC CHIP 0.		50V
R5358	1-215-926-51		33K	5%	3W	r	C6121	1-126-964-11			50V
1/3330	1 213 320 31	METAL OXIDE	33K	J.	J#	•	C6121	1-126-967-11			50V
R5359	1-247-863-91	CARBON	22K	5%	1/4W						
R5360	1-247-845-91	CARBON	3.9K	5%	1/4W		C6125	1-163-017-00	CERAMIC CHIP 0.	0047MF 10%	50V
R5361	1-247-859-91	CARBON	4.7K	5%	1/4W		C6126	1-163-809-11	CERAMIC CHIP 0.	047MF 10%	25V
R5375	1-247-867-91	CARBON	33K	5%	1/4W		C6127	1-163-021-91	CERAMIC CHIP 0.	01MF 10%	50V
R5376	1-247-855-91	CARBON	10K	5%	1/4W		C6128	1-163-017-00	CERAMIC CHIP 0.	0047MF 10%	50V
							C6129	1-163-809-11	CERAMIC CHIP 0.	047MF 10%	25V
R5377	1-247-857-91	CARBON	12K	5%	1/4W				(KV-28FX60A/	28FX60B/28FX6	OD/28FX60E/
R5378	1-247-855-91	CARBON	10K	5%	1/4W				28FX60K/	28FX60R/28FX6	OU)
R5379	1-247-873-91	CARBON	56K	5%	1/4W			1-164-004-11	CERAMIC CHIP 0.	1MF 10%	25V
R5380	1-247-863-91	CARBON	22K	5%	1/4W				(KV-32FX60A/	32FX60B/32FX6	OD/32FX60E/
R5381	1-247-837-91		1.8K	5%	1/4W				32FX60K/	32FX60R/32FX6	OU)
R5382	1-202-549-81	SOLID	100	20%	1/2W		C6130	1-163-259-91	CERAMIC CHIP 22	OPF 5%	50V
R5383	1-216-399-51		6.8	5%		F	00130	1 103 233 31		28FX60B/28FX6	
R5384	1-216-399-51		6.8	5%	3W	F				28FX60R/28FX6	
R5385	1-202-549-81		100	20%	1/2W	•	C6131	1-126-964-11			50V
R5386	1-202-884-91		820K		1/2W		C6132		CERAMIC CHIP 22		50V
R5387	1-202-884-91		820K		1/2W		C6199		CERAMIC CHIP 12		50V
R5388	1-215-911-51		100	5% 50	3W		C6207	1-126-967-11			50V
R5389	1-249-417-91	CARRON	1K	5%	1/4W	r.	C6208	1-126-967-11			50V
	< VAI	RIABLE RESISTO	R >				C6209 C6210		CERAMIC CHIP 47 CERAMIC CHIP 0.		50V 50V
RV5375		RES, ADJ, ME					C6250	1-104-664-11			16V
D17E276	1 220 641 21	RES, ADJ, ME	PAT. GT.Z	ZE 2 2	2м		C6253	1-115-339-11	CERAMIC CHIP 0.	1MF 10%	50V
KV33/0	1-230-641-21	MID, ADO, MI.	IAU OH								
KV33/0	1-230-641-21	NED, ADO, NE.	ini oli				C6254	1-136-177-00	FILM 1M		50V
RV5376	1-230-641-21	NEO, ADO, ME.	IAL OLI					1-136-177-00 1-136-177-00	FILM 1M	F 5%	50V 50V 50V



REF. NO.	PART.NO	DESCRIPTIO	N	H	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
C6257	1-115-339-11	CERAMIC CHIP	0.1MF	10%	50V		< CON	NECTOR >	
C6258	1-163-127-00	CERAMIC CHIP	270PF	5%	50V				
6259		CERAMIC CHIP		10%	16V	CN6502	1-564-509-11	PLUG, CONNECTOR 6P	
6260	1-104-664-11		47MF	20%	16V			,	60B/28FX60D/28FX60E/
6261		CERAMIC CHIP		10%	50V			28FX60K/28FX6	
		J OHIT			•••		*1-568-881-51	PIN, CONNECTOR 6P	, =
6262	1-136-165-00	FILM	0.1MF	5%	50V		1 200 001-31		60B/32FX60D/32FX60E/
26263	1-163-109-00				50V				
	1-163-109-00			5% 20%				32FX60K/32FX6	UNA 251 VOOO)
26264			10MF	20%	50V	0320004	1 (05 000 11	CONTROL PART TO	DOADD FAD
26306	1-126-964-11		10MF	20%	50V	CN6601		CONNECTOR, BOARD TO	ROWED 201
6307	1-163-021-91	CERAMIC CHIP	O'OTWE,	10%	50V	CN6622		PIN, CONNECTOR 3P	
	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		A 410=	4.6.	A ===	CN6633	*1-568-878-51	PIN, CONNECTOR 3P	
6350		CERAMIC CHIP		10%	25V				
6351	1-126-967-11		47MF	20%	50V		< DIO	DE >	
6353	1-115-339-11			10%	50V				
6354	1-136-159-00		0.033MF	5%	50V	D6100		DIODE DAN202K	
6355	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	D6101	8-719-921-40	DIODE MTZJ-4.7C	
						D6102	8-719-914-43	DIODE DAN202K	
6356	1-163-809-11	CERAMIC CHIP	0.047MF	10%	25V	D6104	8-719-914-43	DIODE DAN202K	
:6357	1-136-165-00		0.1MF	5%	50V	D6105		DIODE DAN202K	
6358	1-104-329-11			10%	50V				
:6359		CERAMIC CHIP		10%	50V	D6106	8-719-914-43	DIODE DAN202K	
6360	1-107-714-11		10MF	20%	50V	D6100		DIODE DAN202K-T-146	
0300	1 101 114-11	PHECI	TOPIE	20.0	301	D6107		DIODE MTZJ-4.7C	
:6361	1-164-004-11	CEDAMIC CUID	0 1MF	10%	25V	D6108		DIODE MIZO-4.7C	
6362	1-164-004-11				25V 50V	D6127		DIODE DAN202K	
				10%		חסדקא	0-119-914-43	DIONE DWNSASK	
:6363	1-104-665-11		100MF	20%	25V	DC100	0 710 014 40	DIODE DANGGOV	
:6364	1-137-493-11		0.0047MF	5%	630V	D6129		DIODE DAN202K	_
6365	1-163-809-11	CERAMIC CHIP	U.U47MF	10%	25V	D6198		DIODE MTZJ-T-77-2.2E	3
						D6253		DIODE 1SS119-25	
:6367		CERAMIC CHIP		10%	50V	D6254		LEAD, JUMPER (5.0MM)	1
:6368		CERAMIC CHIP	0.01MF	10%	50V	D6255	8-719-914-43	DIODE DAN202K	
26370	1-137-493-11		0.0047MF	5%	630V				
26371	1-137-493-11		0.0047MF	5%	630V	D6350	8-719-914-43	DIODE DAN202K	
6373	1-136-153-00	FILM	0.01MF	5%	50V			(KV-32FX60A/32FX 32FX60K/32FX6	60B/32FX60D/32FX60E/ 50R/32FX60U)
6374	1-137-499-11	FILM	0.015MF	5%	630V	D6351	8-719-914-43	DIODE DAN202K	•
6375	1-102-110-00		220PF	10%	50V	D6352		DIODE DAN202K	
6376	1-104-664-11		47MF	20%	16V				
6377	1-128-551-11		22MF	20%	25V	D6353	8-719-987-87	DIODE ERA85-009	
6378		CERAMIC CHIP		10%	50V	D6354		DIODE DAN202K	
0370	1 113 339-11	CHAMIC CHIP	V. IH	TO.0	301	D6355		DIODE DAN202K	
6300	1-136-165-00	DTTM	0 1ME	E 0.	E017				
6380			0.1MF	5%	50V	D6358		DIODE DAN202K	
6381	1-126-960-11		1MF	20%	50V	D6359	8-719-302-43	DIODE EPIX	
6385	1-104-664-11		47MF	20%	25V		0.040.011.11	DT0D# DT0.00	
6386	1-104-664-11		47MF	20%	25V	D6401		DIODE DAN202K	
6388	1-126-964-11	ELECT	10MF	20%	50V	D6402		DIODE MTZJ-3.6A	
						D6403		DIODE MTZJ-7.5B	
6389	1-126-964-11	ELECT	10MF	20%	50V	D6404	8-719-914-43	DIODE DAN202K	
6392	1-104-664-11	ELECT	47MF	20%	25V	D6405	8-719-921-63	DIODE MTZJ-7.5B	
6401	1-126-964-11	ELECT	10MF	20%	50V				
6402	1-107-714-11		10MF	20%	50V		< IC	>	
6407	1-136-161-00		0.047MF	5%	50V				
				- •		IC6100	8-759-103-93	IC LM393N	
6408	1-136-161-00	FTT.M	0.047MF	5%	50V	100100	0 .05 100 55		60B/28FX60D/28FX60E/
26409	1-126-964-11		10MF	ეა 20%	50V			28FX60K/28FX6	
ひせひろ	1-120-904-11	PUBCI	TOME	206	201		8-759-450-95		UVA/ 201AUUU)
							x = / \u2 = // \u2   - \u2 \u2	LL LINISMSN	
							0 133 430 33		60B/32FX60D/32FX60E/



REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION		REMARK
IC6101	8-759-103-93 IC	: LM393N		Q6112	8-729-620-06	TRANSISTOR 2SC	3052-EF	
		(KV-28FX60A/28FX60B/28	FX60D/28FX60E/	Q6113	8-729-620-06	TRANSISTOR 2SC	3052-EF	
		28FX60K/28FX60R/28		Q6118	8-729-620-06			
	8-759-450-95 IC	·	,	Q6119		TRANSISTOR 2SA		
		(KV-32FX60A/32FX60B/32 32FX60K/32FX60R/32		Q6120		TRANSISTOR 2SA		
		SEINOUN, SEINOUN, SE	12.0007	Q6122	8-729-216-22	TRANSISTOR 2SA	1162-G	
IC6102	8-759-701-50 IC	NJM3404AD		Q6123	8-729-216-22	TRANSISTOR 2SA	1162-G	
IC6103	8-759-450-95 IC	LM393N		Q6125		TRANSISTOR 2SC		
IC6250	8-759-478-66 IC	CXA8070P		Q6126	8-729-216-22	TRANSISTOR 2SA	1162-G	
IC6251	8-759-903-16 IC	LM318P		Q6127	8-729-216-22	TRANSISTOR 2SA	1162-G	
IC6302	8-752-072-94 IC	CXA1875AM-T4		"				
				Q6128	8-729-620-06	TRANSISTOR 2SC	3052-EF	
IC6350	8-759-135-80 IC	LM358P		Q6129	8-729-216-22	TRANSISTOR 2SA	1162-G	
		(KV-28FX60A/28FX60B/28	FX60D/28FX60E/	Q6130	8-729-216-22	TRANSISTOR 2SA	1162-G	
		28FX60K/28FX60R/28	FX60U)	Q6131	8-729-620-06	TRANSISTOR 2SC	3052-EF	
	8-759-008-70 IC	LM358N		Q6201	8-729-620-06	TRANSISTOR 2SC	3052-EF	
		(KV-32FX60A/32FX60B/32	FX60D/32FX60E/					
		32FX60K/32FX60R/32	FX60U)	Q6202	8-729-620-06	TRANSISTOR 2SC	3052-EF	
			•	Q6250	8-729-620-06	TRANSISTOR 2SC	3052-EF	
IC6351	8-759-103-93 IC	: LM393P		Q6251	8-729-620-06	TRANSISTOR 2SC	3052-EF	
		(KV-28FX60A/28FX60B/28	FX60D/28FX60E/	Q6252	8-729-216-22	TRANSISTOR 2SA	1162-G	
		28FX60K/28FX60R/28		Q6253		TRANSISTOR 2SC		
	8-759-450-95 IC	LM393N	•					
		(KV-32FX60A/32FX60B/32	FX60D/32FX60E/	Q6254	8-729-017-05	TRANSISTOR 2SA	1837	
		32FX60K/32FX60R/32	FX60U)	Q6350	8-729-620-06	TRANSISTOR 2SC	3052-EF	
				Q6351	8-729-119-78	TRANSISTOR 2SC	2785-HFE	
IC6352	8-759-103-93 IC	: LM393P		Q6352	8-729-140-97	TRANSISTOR 2SB	734-34	
		(KV-28FX60A/28FX60B/28 28FX60K/28FX60R/28		Q6353	8-729-140-97	TRANSISTOR 2SB	734-34	
	8-759-450-95 IC		,	Q6354	8-729-620-06	TRANSISTOR 2SC	3052-EF	
		(KV-32FX60A/32FX60B/32	FX60D/32FX60E/	Q6356		TRANSISTOR 2SC		
		32FX60K/32FX60R/32		Q6358	8-729-038-83	TRANSISTOR 2SK	2251-01-F19	
		. ,	,	Q6401	1-801-806-11	TRANSISTOR DTC	144EKA-T146	
IC6353	8-759-231-53 IC	TA7805S		Q6402	1-801-806-11	TRANSISTOR DTC	144EKA-T146	
IC6354	8-759-325-48 IC	CA0005AD						
IC6355	8-759-008-70 IC	LM358N		Q6403	8-729-620-06	TRANSISTOR 2SC	3052-EF	
IC6356	8-759-822-38 IC	LA6510		06404	8-729-216-22	TRANSISTOR 2SA	1162-G	
				Q6405	8-729-216-22	TRANSISTOR 2SA		
	< FILT	ER >		Q6455	8-729-620-06	TRANSISTOR 2SC	3052-EF	
				Q6465	8-729-620-06	TRANSISTOR 2SC	3052-EF	
LF6350	1-406-989-21 1	NDUCTOR OUH						
LF6351	1-406-989-21 1	NDUCTOR OUH			< RES	ISTOR >		
	< IC L	ink >		R6100	1-216-033-00	RES,CHIP	220 5%	1/10W
				R6101	1-216-033-00		220 5%	1/10W
PS6376 Z	∆ 1-532-637-00 I	INK,IC 1A (ICP-N25)		R6102	1-216-057-00		2.2K 5%	1/10W
r		•		R6103	1-216-057-00	,	2.2K 5%	1/10W
	< TRANS	SISTOR >		R6104	1-216-057-00		2.2K 5%	1/10W
06100	0 700 600 06 -	DANGTOMOD 00000F0 ==		DC10F	1 016 040 04	DEG GUED	172 - 50	1 /1 052
Q6100		RANSISTOR 2SC3052-EF		R6105	1-216-049-91		1K 5%	1/10W
Q6101		RANSISTOR 2SC3052-EF		R6106	1-216-057-00		2.2K 5%	1/10W
Q6102		RANSISTOR 2SC3052-EF		R6107	1-216-657-11		1.8K 0.50%	•
Q6103		RANSISTOR 2SC3052-EF		R6108	1-216-657-11		1.8K 0.50%	
Q6104		RANSISTOR 2SC3052-EF		R6109	1-216-683-11	(KV-28FX60A		FX60D/28FX60E/
Q6105		RANSISTOR 2SC3052-EF			1 010 000 11		7/28FX60R/28	•
Q6106		RANSISTOR 2SC3052-EF			1-216-683-11		22K 0.50%	
Q6107		RANSISTOR 2SC3052-EF						FX60D/32FX60E/
Q6108		RANSISTOR 2SA1162-G				32FX60F	X/32FX60R/32	rx6UU)
Q6110	8-129-216-22 T	RANSISTOR 2SA1162-G						

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REF. NO.	PART.NO	DESCRIPTION			REMARK	REF. NO.	PART.NO	DESCRIPTION	l		REMARK
	1-216-691-11			.50% 1/1	LOW	R6146	1-216-085-00		33K		1/10W
	1-216-057-00		2.2K 5		LOW						BFX60D/28FX60E/
	1-216-057-00		2.2K 5							60R/28	•
	1-216-073-00		10K 59				1-216-065-91	,	4.7K		1/10W
	1-216-073-00	·	10K 5	, -						X60B/32 K60R/32	2FX60D/32FX60E/ FX60U)
	1-216-089-91		47K 59								4 /4 0
	1-216-089-91		47K 59			R6147	1-216-057-00		2.2K		1/10W
	1-216-073-00		10K 59	-, -		R6148	1-216-057-00		2.2K		1/10W
	1-216-073-00		10K 59			R6149	1-216-025-91			5% = 0	1/10W
	1-216-073-00	- 1 -	10K 5	,		R6154	1-216-057-00	(KV-28FX60		X60B/28	1/10W BFX60D/28FX60E/
	1-216-057-00		2.2K 5							(60R/28)	•
	1-216-057-00	·	2.2K 5				1-216-041-00		470		1/10W
	1-216-057-00		2.2K 5					•			2FX60D/32FX60E/
	1-216-089-91		47K 59					32FX60	K/32FX	(60R/32)	FX60U)
R6124	1-216-089-91	RES, CHIP	47K 59	% 1/1	LUW	DC1 EE	1 014 047 00	DEC CUIT	E /**	E0	1 /1 017
D612E	1_216_057_00	סשכ כעדה	י אר כ	Q 1/1	I 0tz	R6155	1-216-067-00		5.6K		1/10W BFX60D/28FX60E/
	1-216-057-00 1-216-037-00		2.2K 59								
	1-216-037-00			ः 1/1 ∴50% 1/1			1-216-065-91		K/28FX 4.7K	60R/28	1/10W
	1-216-659-11			.50% 1/1 .50% 1/1	-		1-210-003-91	,			1/10W 2FX60D/32FX60E/
	1-216-691-11			.50% 1/1				•		x60B/32 (60R/32)	
R6130	1-218-768-11	(KV-28FX60A,	/28FX60E	.50% 1/1 B/28FX60 DR/28FX60	D/28FX60E/	R6158	1-216-675-11	(KV-28FX60			1/10W BFX60D/28FX60E/ FX60U)
R6131	1-216-037-00		330 59		·		1-216-671-11				1/10W
	1-216-037-00		330 5	•			1 210-0/1-11	(KV-32FX60	)A/32FX		2FX60D/32FX60E/
R6133	1-216-037-00	RES, CHIP	330 59	<b>%</b> 1/1	LOW			JZFAOU	N, JEFA	JUNI JE	220001
	1-216-057-00		2.2K 5			R6159	1-216-295-91	SHORT	0		
	1-216-057-00		2.2K 5			R6160	1-216-295-91		0		
	1-216-691-11			.50% 1/1					)A/28F)	к60B/28	3FX60D/28FX60E/
	1-216-691-11			.50% 1/1						60R/28	
							1-216-655-11				1/10W
	1-216-691-11			.50% 1/1							2FX60D/32FX60E/
	1-216-691-11			.50% 1/1				32FX60	K/32FX	(60R/32)	FX60U)
	1-216-057-00			<b>%</b> 1/1							
R6141	1-216-069-00	(KV-28FX60A)		B/28FX60	D/28FX60E/	R6161	1-216-671-11		)A/28FX	X60B/28	BFX60D/28FX60E/
	1_016_065_01			)R/28FX6(	· ·		1_016,660 11		•	60R/28	•
	1-216-065-91	(KV-32FX60A)		•	D/32FX60E/		1-216-669-11	(KV-32FX60	)A/32FX		8 1/10W 2FX60D/32FX60E/ FX60U)
R6142	1-216-057-00	RES.CHIP	2.2K 5	% 1/1	LOW	R6162	1-216-049-91	RES.CHIP	1K	5%	1/10W
		(KV-28FX60A)				R6165	1-216-699-11				1/10W
				)R/28FX60		R6168	1-216-065-91		4.7K		1/10W
	1-216-053-00		1.5K 59			R6169	1-216-699-11			0.50%	•
		(KV-32FX60A)	/32FX60E		D/32FX60E/	R6170	1-216-037-00		330	5%	1/10W
					•	R6171	1-216-057-00	RES, CHIP	2.2K	5%	1/10W
R6143	1-216-057-00	RES, CHIP	2.2K 5	<b>%</b> 1/1	LOW	R6174	1-216-075-00		12K		1/10W
	1-216-075-00		12K 59	% 1/1	LOW			(KV-28FX60	)A/28FX		BFX60D/28FX60E/
			:/28FX60	)R/28FX60	·		1-216-081-00		22K		1/10W
	1-216-045-00	(KV-32FX60A)			D/32FX60E/					X60B/32 X60R/32	2FX60D/32FX60E/ FX60U)
		JZERUUN	., JEFAUU	M JEEVO	···,	R6175	1-216-075-00	RES,CHIP	12K	5%	1/10W
						1					

REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION			REN	IARK
R6176	1-216-295-91	SHORT 0		R6210	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	
R6177	1-216-065-91	RES, CHIP 4.7K	5% 1/10W	R6211	1-216-073-00		10K		1/10W	
R6178	1-216-073-00		5% 1/10W	R6212	1-216-057-00		2.2K	5%	1/10W	
R6179	1-216-067-00	RES,CHIP 5.6K	5% 1/10W	R6215	1-216-089-91		47K		1/10W	
		(KV-28FX60A/28FX6 28FX60K/28FX6	50B/28FX60D/28FX60E/ 50R/28FX60U)			(KV-32FX60) 32FX60				32FX60E/
	1-216-059-00						,	,	,	
		(KV-32FX60A/32FX6	50B/32FX60D/32FX60E/	R6216	1-216-089-91	RES,CHIP	47K	5%	1/10W	
		32FX60K/32FX6	50R/32FX60U)	R6217	1-216-073-00	RES, CHIP	10K	5%	1/10W	
				R6254	1-216-049-91	RES,CHIP	1K	5%	1/10W	
R6180	1-216-057-00	RES, CHIP 2.2K	5% 1/10W	R6255	1-216-061-00	RES,CHIP	3.3K	5%	1/10W	
R6182	1-216-089-91	RES, CHIP 47K	5% 1/10W	R6256	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	
R6183	1-216-057-00	RES,CHIP 2.2K	5% 1/10W							
R6186	1-216-295-91	SHORT 0		R6257	1-216-061-00	RES,CHIP	3.3K	5%	1/10W	
			50B/28FX60D/28FX60E/	R6258	1-216-057-00		2.2K		1/10W	
		28FX60K/28FX6		R6259	1-216-097-91		100K		1/10W	
	1-216-049-91	,	5% 1/10W	R6260	1-216-049-91	,	1K		1/10W	
		(KV-32FX60A/32FX6 32FX60K/32FX6	50B/32FX60D/32FX60E/ 50R/32FX60U)	R6261	1-216-097-91	RES,CHIP	100K	5%	1/10W	
				R6262	1-260-321-71	CARBON	270	5%	1/2W	
R6187	1-216-065-91		5% 1/10W	R6263	1-216-025-91	RES,CHIP	100	5%	1/10W	
R6188	1-216-065-91	RES,CHIP 4.7K	5% 1/10W	R6264	1-216-025-91	RES,CHIP	100	5%	1/10W	
		(KV-28FX60A/28FX6	50B/28FX60D/28FX60E/	R6265	1-216-101-00	RES,CHIP	150K	5%	1/10W	
		28FX60K/28FX6	50R/28FX60U)	R6267	1-216-049-91	RES,CHIP	1K	5%	1/10W	
R6189	1-216-065-91									
			50B/28FX60D/28FX60E/	R6269	1-216-667-11			0.50%		
		28FX60K/28FX6		R6270	1-216-667-11			0.50%		
	1-216-049-91	,	5% 1/10W	R6271	1-216-683-11			0.50%		
			50B/32FX60D/32FX60E/	R6272	1-216-683-11		22K		1/10W	
R6190	1-216-057-00	32FX60K/32FX6 RES,CHIP 2.2K	·			(KV-28FX60) 28FX60				OFAUUL/
R6191	1-215-925-11		5% 3W F	R6273	1-216-081-00	RES,CHIP	22K	5%	1/10W	
R6192	1-216-081-00	RES,CHIP 22K	5% 1/10W	R6276	1-216-689-11	,	39K	0.50%		
		(KV-28FX60A/28FX6	50B/28FX60D/28FX60E/	R6277	1-216-686-11	METAL CHIP	30K	0.50%	1/10W	
		28FX60K/28FX6	50R/28FX60U)	R6278	1-216-057-00	RES, CHIP	2.2K	5%	1/10W	
	1-216-065-91		5% 1/10W 50B/32FX60D/32FX60E/	R6279	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	
		32FX60K/32FX6		R6280	1-249-377-11	CARBON	0.47	5%	1/4W	F
		·	,	R6281	1-249-377-11		0.47		1/4W	
R6194	1-216-065-91	RES,CHIP 4.7K	5% 1/10W	R6282	1-215-886-11		100	5%	•	F
R6195	1-216-093-00			R6283	1-216-393-00		2.2	5%		F
			50B/28FX60D/28FX60E/	R6284	1-216-113-00		470K	5%	1/10W	
	1-216-065-91	· ·	•	R6285	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	
	_		50B/32FX60D/32FX60E/	R6286	1-216-073-00		10K	5%	1/10W	
		32FX60K/32FX6		R6287	1-216-073-00		10K	5%	1/10W	
				R6313	1-216-295-91		0			
R6196	1-249-377-11	CARBON 0.47	5% 1/4W F	R6322	1-216-049-91	RES, CHIP	1K	5%	1/10W	
R6198	1-216-075-00	RES, CHIP 12K	5% 1/10W							
		(KV-28FX60A/28FX6	50B/28FX60D/28FX60E/	R6323	1-216-049-91	RES,CHIP	1K	5%	1/10W	
		28FX60K/28FX6	50R/28FX60U)	R6324	1-216-025-91	RES, CHIP	100	5%	1/10W	
	1-216-081-00			R6325	1-216-025-91	RES,CHIP	100		1/10W	
		(KV-32FX60A/32FX6	50B/32FX60D/32FX60E/	R6350	1-216-089-91	RES,CHIP	47K	5%	1/10W	
		32FX60K/32FX6	50R/32FX60U)	R6351	1-218-762-11	METAL CHIP	270K	0.50%	1/10W	
R6199	1-216-081-00	RES,CHIP 22K	5% 1/10W	R6353	1-216-671-11	METAL CHIP	6.8K	0.50%	1/10W	
R6205	1-216-025-91		5% 1/10W	R6355	1-218-774-11			0.50%		
R6206	1-216-105-91		•	R6356	1-216-675-11			0.50%		
R6208	1-216-089-91		5% 1/10W	R6357	1-216-057-00		2.2K		1/10W	
R6209	1-216-295-91		•	R6358	1-216-047-91		820		1/10W	
		·				,		-	, _ • • •	

REF. NO.	PART.NO	DESCRIPTION	N		REMARK	REF. NO.	PART.NO	DESCRIPTION	N		RE	MARK
R6359	1-216-097-91	RES.CHIP	100K	5%	1/10W	R6414	1-216-679-11	METAL CHIP	15K	0.50%	1/10W	1
16360	1-216-073-00		10K		1/10W	R6415	1-216-683-11		22K	0.50%		
R6361	1-216-097-91		100K		1/10W	R6416	1-216-683-11		22K	0.50%		
16362	1-216-687-11			0.50%		R6418	1-216-093-00		68K	5%	1/10W	
16363	1-216-675-11			0.50%		R6419	1-216-073-00		10K	5% 5%	1/10W	
R6364	1-216-057-00	RES.CHIP	2.2K	5%	1/10W	R6420	1-216-091-00	RES.CHIP	56K	5%	1/10W	1
16365	1-216-033-00		220		1/10W	R6421	1-216-637-11	,	270		1/10W	
16366	1-216-057-00		2.2K		1/10W	R6422	1-216-639-11		330	0.50%		
86367	1-216-679-11			0.50%		R6423	1-216-657-11			0.50%		
16368	1-218-760-11			0.50%		R6426	1-216-081-00		22K	5%	1/10W	
16369	1-218-762-11	МЕТАТ. СИТР	270K	0.50%	1/10W	R6427	1-216-081-00	RES CHIP	22K	5%	1/10W	1
36370	1-216-675-11		10K	0.500	-/	R6428	1-216-101-00		150K		1/10W	
.0370	1 210 0/3 11			60B/28	FX60D/28FX60E/	R6429	1-216-065-91		4.7K		1/10W	
			OK/28FX			R6430	1-216-065-91		4.7K		1/10W	
	1-216-677-11			0.50%		R6431	1-216-113-00		470K		1/10W	
	1-210-0//-11				•	V042I	1-510-113-00	AES, CRIP	4 / UL	٥٠	1/1UW	•
					FX60D/32FX60E/	DC420	1_016 057 00	מדוות מודה	0 017	<b>E</b> 0.	1 /1 0=	7
		32FX60	0K/32FX	10UK/ 32	LVOOO)	R6432	1-216-057-00		2.2K		1/10W	
0.6271	1 010 474 11	MEMAT OFFE	00	E0	OW TO	R6433	1-216-073-00	,	10K	5% E0	1/10W	I
R6371	1-216-474-11		82	5% 5°	3W F	R6437	1-249-422-11		2.7K		1/4W	
R6372	1-216-033-00		220	5%	1/10W	R6438	1-249-421-11		2.2K		1/4W	_
R6373	1-216-681-11		18K		1/10W	R6439	1-216-683-11	METAL CHIP	22K	0.50%	1/10W	I
R6374	1-216-689-11		39K		1/10W	1						
R6375	1-216-041-00	RES,CHIP	470	5%	1/10W	R6440	1-216-683-11		22K		1/10W	
						R6441	1-216-673-11			0.50%		
R6377	1-216-689-11	METAL CHIP	39K		1/10W	R6442	1-216-039-00		390	5%	1/10W	1
16378	1-216-675-11	METAL CHIP	10K	0.50%	1/10W	R6455	1-216-295-91	SHORT	0			
R6379	1-216-295-91	SHORT	0			R6456	1-216-097-91	RES,CHIP	100K	5%	1/10W	Ī
R6380	1-218-754-11	METAL CHIP	120K	0.50%	1/10W							
R6381	1-216-045-00	RES,CHIP	680	5%	1/10W	R6457	1-216-075-00	RES,CHIP	12K	5%	1/10W	1
						R6458	1-216-089-91	RES, CHIP	47K	5%	1/10W	ľ
R6382	1-218-754-11	METAL CHIP	120K	0.50%	1/10W	R6459	1-216-057-00	RES, CHIP	2.2K	5%	1/10W	ľ
R6383	1-216-687-11	METAL CHIP	33K	0.50%	1/10W	R6460	1-249-393-11	CARBON	10	5%	1/4W	
R6384	1-216-043-91	RES, CHIP	560	5%	1/10W	R6461	1-249-411-11	CARBON	330	5%	1/4W	
R6385	1-216-295-91		0									
R6386	1-216-699-11		100K	0.50%	1/10W	R6462	1-249-406-11	CARBON	120	5%	1/4W	
					-,	R6463	1-216-095-00		82K	5%	1/10W	I
R6387	1-216-677-11	METAL CHIP	12K	0.50%	1/10W	R6464	1-216-079-00		18K	5%	1/10W	
R6391	1-249-417-11		1K	5%	1/4W					••	_,	•
R6394	1-216-069-00		6.8K		1/10W	******	******	******	*****	*****	*****	*****
R6395	1-216-081-00		22K	5%	1/10W					"		
R6397	1-216-675-11		10K		1/10W		*A-1640-328-A	ה אים שמשם היי	י שייש,וכן	'KV_20₽	x601	
NO 9 1					1/ 1011		H 1040-320-H	********		MV - 201	1001	
R6398	1-216-065-91	RES,CHIP	4.7K		1/10W		*A-1640-323-A			KV-32F	X60)	
R6399	1-218-756-11	METAL CHIP	150K	0.50%	1/10W			******	****			
R6400	1-216-675-11	METAL CHIP	10K	0.50%	1/10W							
R6401	1-216-295-91	SHORT	0				4-201-023-01	SPACER, INSU	JLATING			
R6402	1-216-295-91	SHORT	0				4-202-373-01					
							4-382-854-11	SCREW (M3X10	)), P, S	SW (+)		
R6403	1-216-661-11	METAL CHIP	2.7K	0.50%	1/10W		*4-931-401-01					
86404	1-216-683-11			0.50%	· .		<b>-</b>	,				
6405	1-216-683-11		22K		1/10W		< CAP	ACITOR >				
86409	1-216-025-91		100	5%	1/10W							
16410	1-216-073-00		10K	5% 5%	1/10W	C6600 A	1-162-580-51	CERAMIC	0.01MF	,		400V
	2 220 070 00				FX60D/28FX60E/	C6603	1-126-933-11		100MF		20%	16V
			0K/28FX			C6604	1-126-767-11		100MF		20% 20%	16V
		20170	VII./ 2011	2001/ 20	ENUVUJ		1-120-707-11		2200PF		20°5 20%	250V
R6411	1-216-073-00	מדט פקק	10K	5%	1/10W		1-119-888-51		2200PF		20°5 20%	250V 250V
	1-216-073-00	,	10K	5%	1/10W	COUVO Z	7 1-113-000-31	CERMPIC	ZZUUFF		4V3	2301
R6412 R6413	1-216-073-00	,	10K 15K		1/10W 1/10W	C6607 A	1-107-565-11	RTTN	0.33ME	,	20%	300V
							1-1111-bbb-					- CHILLY



REF. NO.	PART.NO	DESCRIPTIO	N	R	EMARK	REF. NO.	PART.NO	DESCRIPTION	DN	REMARK	
C6608 A	1-161-964-91	CERAMIC	0.0047MF		250V	C6672	1-104-664-11	ELECT	47MF	20%	16V
C6609 A	1-161-964-91	CERAMIC	0.0047MF		250V	C6673	1-104-664-11	ELECT	47MF	20%	16V
C6610	1-162-599-12	CERAMIC	0.0047MF		250V	C6677	1-136-165-00	FILM	0.1MF	5%	50V
C6611	1-162-599-12	CERAMIC	0.0047MF		250V	C6679	1-130-495-00	FILM	0.1MF	5%	50V
C6612	1-161-744-00	CERAMIC	0.01MF		400V	C6680	1-137-370-11	FILM	0.01MF	5%	50V
C6616	1-164-625-11	CERAMIC	680PF	10%	500V	C6681	1-126-964-11	ELECT	10MF	20%	50V
C6617	1-164-625-11	CERAMIC	680PF	10%	500V	C6700	1-102-129-00	CERAMIC	0.01MF	10%	50V
C6618	1-136-175-00	FILM	0.68MF	5%	50V	C6703	1-128-527-11	ELECT	330MF	20%	25V
C6619	1-137-194-91	FILM	0.47MF	5%	50V	C6704	1-126-968-11	ELECT	100MF	20%	50V
C6620	1-136-618-11	FILM	0.047MF	5%	1.25KV	C6705	1-128-527-11	ELECT	330MF	20%	25V
C6621	1-136-175-00		0.68MF	5%	50V	C6706	1-106-228-00	MYLAR	0.22MF	10%	100V
C6622	1-164-625-11		680PF	10%	500V	C6707	1-129-702-00	FILM	0.001MF	10%	400V
C6623	1-137-194-91		0.47MF	5%	50V	C6708	1-106-220-00		0.1MF	10%	100V
C6624	1-126-968-11		100MF	20%	50V	C6709	1-102-129-00		0.01MF	10%	50V
C6626	1-164-625-11	CERAMIC	680PF	10%	500V	C6710	1-130-785-11	MYLAR	0.47MF	10%	100V
C6627	1-164-625-11		680PF	10%	500V	C6727	1-102-228-00	CERAMIC	470PF	10%	500V
C6628	1-126-936-11		3300MF	20%	16V	C6801	1-104-664-11		47MF	20%	25V
C6629	1-128-548-11		4700MF	20%	25V	C6802	1-126-960-11		1MF	20%	50V
C6630	1-110-626-11		330MF	20%	160V	C6803	1-126-960-11		1MF	20%	50V
C6631	1-128-548-11	ELECT	4700MF	20%	25V	C6804	1-102-114-00	CERAMIC	470PF	10%	50V
C6632	1-128-548-11	ELECT	4700MF	20%	25V	C6805	1-102-114-00	CERAMIC	470PF	10%	50V
C6633	1-126-935-11	ELECT	470MF	20%	16V	C6808	1-102-030-00	CERAMIC	330PF	10%	500V
C6634	1-136-165-00		0.1MF	5%	50V	C6809	1-102-030-00	CERAMIC	330PF	10%	500V
C6635	1-104-664-11		47MF	20%	25V	C6810	1-107-368-11		0.047MF	10%	200V
C6636	1-102-129-00	CERAMIC	0.01MF	10%	50V	C6811	1-107-368-11	FILM	0.047MF	10%	200V
C6637	1-102-129-00	CERAMIC	0.01MF	10%	50V	C6812	1-162-131-11	CERAMIC	220PF	10%	2KV
C6638	1-137-368-11	FILM	0.0047MF	5%	50V	C6813	1-162-134-11	CERAMIC	470PF	10%	2KV
C6639	1-102-228-00	CERAMIC	470PF	10%	500V	C6814	1-117-641-11	FILM	7500PF	3%	1.2KV
C6641	1-126-967-11	ELECT	47MF	20%	50V			(KV-28FX	60A/28FX60B	/28FX60D	/28FX60E/
C6642	1-126-964-11	ELECT	10MF	20%	50V			28FX	60K/28FX60R,	/28FX60t	J)
							1-117-640-11	FILM	6800PF	3%	1.2KV
C6647	1-104-664-11	ELECT	47MF	20%	25V			(KV-32FX	60A/32FX60B/	/32FX60D	/32FX60E/
C6649	1-126-965-11	ELECT	22MF	20%	50V			32FX	60K/32FX60R,	/32FX60t	J)
C6651	1-162-599-12		0.0047MF		250V						
C6652	1-107-679-91	ELECT	10MF	20%	450V	C6815	1-117-836-11	FILM	6800PF	3%	2KV
C6653	1-126-968-11	ELECT	100MF	20%	50V				60A/28FX60B, 60K/28FX60R,		
C6654	1-162-117-00	CERAMIC	100PF	10%	500V		1-117-835-11		6200PF	3%	2KV
C6655	1-109-879-11		22PF	5%	2KV		1 117 055 11		60A/32FX60B		
C6656	1-126-967-11		47MF	20%	50V			•	60K/32FX60R/		
C6657	1-126-941-11		470MF	20%	25V			JEIN	JUNY SELMOUN	JLINOU	′′
C6658	1-104-665-11		100MF	20%	25V	C6816	1-137-364-00	FTT.M	0.001MF	5%	50V
00000	1 104 005 11	HIBCI	100111	200	231	C6817	1-125-893-11		680PF	3%	2KV
C6659	1-104-665-11	ELECT	100MF	20%	25V	C6818	1-125-893-11		680PF	3%	2KV
C6661		ELECT (BLOCK)		20%	450V	C6819	1-125-893-11		680PF	3%	2KV
C6662	1-136-165-00		0.1MF	5%	50V	C6820	1-125-893-11		680PF	3%	2KV
C6664	1-136-153-00		0.01MF	5%	50V	00020	1 110 033 11		00011	3.	
C6665	1-136-165-00		0.1MF	5% 5%	50V	C6824	1-107-846-11	FILM	0.1MF	5%	200V
						C6825	1-117-662-11	FILM	0.18MF	5%	200V
C6666	1-136-165-00		0.1MF	5%	50V	C6826	1-117-666-71		0.39MF	5%	250V
C6667	1-126-933-11		100MF	20%	16V			•	60A/28FX60B/		
C6668	1-126-933-11		100MF	20%	16V				60K/28FX60R,		•
C6669	1-136-165-00		0.1MF	5%	50V		1-117-665-11		0.33MF	5%	200V
C6670	1-136-165-00	FILM	0.1MF	5%	50V			•	60A/32FX60B, 60K/32FX60R,		
C6671	1-104-664-11	ELECT	47MF	20%	16V			321 A	July 221 110011/	J=11000	· I

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REF. NO.	PART.NO	DESCRIPTION REMARK			REF. NO.	PART.NO	DESCRIPTION	REMARK	
C6827	1-117-660-21	FILM	0.12MF	5%	200V	D6619	8-719-510-12	DIODE D10SC4M	
C6828	1-127-681-91	CERAMIC	10000PF	2%	100V	D6620		DIODE D10SC6M	
C6829	1-127-681-91		10000PF	2%	100V	D6621	8-719-991-33	DIODE 1SS133T-77	
C6830	1-107-655-11		47MF	20%	250V	D6622		DIODE 1SS133T-77	
C6831	1-102-228-00		470PF	10%	500V	D6623	8-719-911-19	DIODE 1SS119-25	
C6832	1-126-941-11	ELECT	470MF	20%	25V	D6624	8-719-991-33	DIODE 1SS133T-77	
C6833	1-126-941-11	ELECT	470MF	20%	25V	D6625	8-719-991-33	DIODE 1SS133T-77	
C6834	1-102-228-00	CERAMIC	470PF	10%	500V	D6627	8-719-982-27	DIODE MTZJ-33C	
C6835	1-102-228-00	CERAMIC	470PF	10%	500V	D6628	8-719-109-97	DIODE RD6.8ESB2	
C6836	1-123-024-21	ELECT	33MF		160V	D6629	8-719-991-33	DIODE 1SS133T-77	
C6837	1-106-375-12		0.022MF	10%	250V	D6630		DIODE 1SS133T-77	
C6840	1-137-370-11		0.01MF	5%	50V	D6651		DIODE ERC04-06SE	
C6841	1-104-664-11		47MF	20%	16V	D6652		DIODE MTZJ-T-77-12	
C6842	1-136-207-11		0.047MF	10%	400V	D6653		DIODE S2LA20F	
C6843	1-136-177-00	FILM	1MF	5%	50V	D6654	8-719-059-23	DIODE P6KE200AG23	
C6851	1-162-131-11		220PF	10%	2KV	D6655		DIODE UF4005PKG23	
C6852	1-162-129-00		150PF	10%	2KV	D6656		DIODE S2LA20F	
C6853	1-137-536-11		0.0022MF	5%	630V	D6658		DIODE ERC04-06SE	
C6855	1-136-205-11		0.022MF	10%	400V	D6659		DIODE S2LA20F	
C6856	1-102-030-00	CERAMIC	330PF	10%	500V	D6676	8-719-991-33	DIODE 1SS133T-77	
C6857	1-130-785-11	FILM	0.47MF	10%	100V	D6677	8-719-921-40	DIODE MTZJ-4.7C	
C6861	1-137-364-11	FILM	0.001MF	5%	50V	D6678	8-719-921-40	DIODE MTZJ-4.7C	
C6862	1-137-364-11	FILM	0.001MF	5%	50V	D6679	8-719-991-33	DIODE 1SS133T-77	
C6863	1-162-134-11	CERAMIC	470PF	10%	2KV	D6700	8-719-908-03	DIODE GP08D	
	< co	NNECTOR >				D6701	8-719-110-41	DIODE RD15ESB2	
	\ COI	NNECTOR >				D6803	8-719-908-03	DIODE CD08D	
CN6100	1-785-805-11	TACE TITM	v			D6805	8-719-302-43		
CN6100	1-785-805-11	,				D6806		DIODE EGP20G	
CN6101	1-785-805-11	,				D6807		DIODE S3L20UF4	
CN6500	1-508-766-00			CH) 4P		D6808		DIODE S3L20UF4	
CN6600	1-695-299-11								
						D6809		DIODE 1SS133T-77	
CN6611	*1-580-798-11					D6810		DIODE MTZJ-T-77-15	
	1-508-765-00			CH) 3P		D6811		DIODE MTZJ-T-77-15	
	1-695-915-11			arri An		D6812		DIODE 1SS133T-77	
CN6677	1-508-786-00 1-695-915-11			CH) ZP		D6813	8-/19-923-86	DIODE MTZJ-T-77-15	
						D6851		DIODE ERA38-06	
	1-695-915-11					D6852	8-719-970-87	DIODE ERA38-06	
CN6700 Z	∆ *1-691-291-11	PIN, CONNEC	TOR (PC BOAR	D) 5P			< FER	RITE BEAD >	
	< DIC	DDE >							
	A 84A A44 12					FB6600		LEAD, JUMPER (5.0MM)	
D6600	8-719-911-19					FB6601		LEAD, JUMPER (5.0MM)	
D6601	8-719-510-64					FB6602	1-410-396-41		
D6602	8-719-109-89					FB6603	1-410-396-41	FERRITE 0.45UH	
D6603	8-719-911-19						. ==		
D6604	8-719-510-53	DIODE D4SB6	OL				< IC	>	
D6610	8-719-510-64	DIODE S2LA2	OF			IC6600	1-810-051-11	POWER MODULE DM-48	
D6613	8-719-911-19					IC6604		TRANSISTOR MX0842A-F	
D6615	8-719-911-19					IC6651	8-759-468-89		
D6616	8-719-510-12	DIODE D10SC	4M			IC6652	8-759-604-39	IC M5F78M12L	
D6617	8-719-500-71	DIODE D8LC4	0			IC6653	8-759-544-13	IC KA78R09TU	
D6618	8-719-047-31	DIODE RBA-4	02L			IC6654	8-759-457-44	IC KA78R05TU	
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REF. NO.	PART.NO DESCRIPTION REMARK			REF. NO.	PART.NO	DESCRIPTIO	N		REMAR	(
IC6667	8-759-908-15	IC TL431CLP		Q6667	8-729-026-41	TRANSISTOR 2	SA933AS-0	RT		
IC6676	8-759-908-15	IC TL431CLP		Q6676	8-729-119-78	TRANSISTOR 2	SC2785-HE	'E		
IC6700	8-759-192-71	IC STV9379		Q6677	8-729-119-78	TRANSISTOR 2	SC2785-HE	Έ		
IC6801	8-759-103-93	IC UPC393C		Q6678	8-729-119-78	TRANSISTOR 2	SC2785-HE	Έ		
	< CO:	п. >		Q6679	8-729-026-41	TRANSISTOR 2	SA933AS-Q	RT		
	<b>\ \ \</b>	,		Q6680	8-729-029-66	TRANSISTOR D	TC114ESA			
L6601	1-535-303-00	LEAD, JUMPER (5.0MM)		Q6681		TRANSISTOR D				
L6602	1-412-529-11			Q6700		TRANSISTOR I				
L6603	1-412-529-11			Q6801		TRANSISTOR 2				
L6604	1-412-525-31			Q6802	8-729-119-80	TRANSISTOR 2	SC2688-LF			
L6605	1-412-525-31	INDUCTOR 10UH			0 =00 010 10					
	1 410 505 01	TURNOTOR 1000		Q6803		TRANSISTOR 2				
L6606	1-412-525-31			Q6804		TRANSISTOR 2				
L6607	1-412-525-31			Q6805		TRANSISTOR 2		F19		
L6651	1-414-183-41			Q6806		TRANSISTOR I				
L6700	1-412-524-41			Q6807	8-729-030-02	TRANSISTOR D	TC144ESA			
L6801	1-412-519-11	INDUCTOR 3.3UH		06000	0_700_110_70	mpaneremon o	פרפספר ייי	יסי		
L6802	1-412-519-11	INDUCTOR 3.3UH		Q6809 Q6810		TRANSISTOR 2:				
L6802	1-412-519-11			Q6810 Q6851		TRANSISTOR 2	-			
L6805	1-412-319-11		Ī	Ž002I	0-729-043-93	TRANSISTOR 2	303040(3)			
L6806	1-410-397-21				/ DEC	SISTOR >				
L6807	1-410-397-21				\ NEC	JULION >				
10007	1 410 557 21	1101		R6601 A	1-202-968-11	CEMENTED	1.2 5	% 10W		
L6808	1-406-675-11	INDUCTOR OUH		R6603	1-249-430-11			5% 1/4		
L6851		LEAD, JUMPER (5.0MM)		R6604	1-249-421-11		2.2K 5			
	1 000 000 00	22.27 002 (0.0.2.)		R6605	1-249-417-11				 W F	
	< FII	LTER >			1-202-968-11			58 10W		
LF6603	1-406-656-21	INDUCTOR OUH		R6607 △	1-202-968-11	CEMENTED	1.2 5	5% 10W		
LF6604	1-406-656-21				1-202-968-11			5% 10₩		
LF6801	1-406-985-11			R6611	1-260-125-11		150K 5	5% 1/2	M	
LF6851	1-406-674-11	INDUCTOR OUH		R6612	1-260-125-11	CARBON	150K 5	i% 1/2	W	
				R6613	1-216-369-00	METAL OXIDE	1 5	5% 2₩	F	
	< IC	LINK >		R6614	1-260-125-11	CADRON	150K 5	5% 1/2	W	
PS6601	∧ 1-801-550-21	PROTECTOR MODULE 2.5A	MP250	R6615	1-260-125-11		150K 5			
		PROTECTOR MODULE 2.5A		R6616	1-216-369-00				F	
		PROTECTOR MODULE 2.5A		R6619	1-249-425-11		4.7K			
•••••			B/28FX60D/28FX60E/	R6620	1-249-443-11		0.47		 W F	
		28FX60K/28FX60						-, -		
	△ 1-801-549-21	PROTECTOR MODULE 4.0A		R6624	1-249-425-11	CARBON	4.7K 5	5% 1/4	W	
			B/32FX60D/32FX60E/	R6625	1-249-429-11			i% 1/4		
		32FX60K/32FX60		R6626	1-247-807-31		100 5	5% 1/4		
				R6627	1-249-429-11	CARBON	10K 5	5% 1/4	W	
		PROTECTOR MODULE 2.5A PROTECTOR MODULE 2.5A		R6628	1-260-129-11	CARBON	330K 5	5% 1/2	W	
		3,00		R6629	1-260-129-11	CARBON	330K 5	5% 1/2	W	
	< TRA	ANSISTOR >		R6630	1-249-417-11			5% 1/4		
				R6631	1-249-425-11		4.7K			
Q6600	8-729-046-47	TRANSISTOR KSC2500-BT	'A	R6632	1-207-905-00		0.27 1		F	
Q6602		TRANSISTOR 2SA933AS-Q		R6633	1-249-429-11		10K 5			
Q6603	8-729-119-78	TRANSISTOR 2SC2785-HF	'E							
Q6605	8-729-046-47	TRANSISTOR KSC2500-BT	'A	R6635	1-535-303-00	LEAD, JUMPER	(5.0MM)			
Q6606	8-729-029-56	TRANSISTOR DTA144ESA		R6637	1-249-421-11	CARBON	2.2K			
				R6638	1-247-895-91	CARBON	470K 5	5% 1/4	W	
Q6607	8-729-119-78	TRANSISTOR 2SC2785-HF	TE.	R6639	1-249-416-11	CARBON	820 5	5% 1/4	W	
Q6608		TRANSISTOR DTC114ESA		R6640	1-249-417-11	CARBON	1K 5	5% 1/4°	W	
Q6651	8-729-026-41	TRANSISTOR 2SA933AS-Q	RT							
Q6652	8-729-029-86	TRANSISTOR DTC124ESA		R6641	1-260-127-11	CARBON	220K 5	5% 1/2	W	

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EF. NO.	PART.NO	DESCRIPTIO	N		RE	MARK	REF. NO.	PART.NO	DESCRIPTIO	DESCRIPTION			REMARK	
.6642	1-249-389-11	CARBON	4.7	5%	1/4W	F	R6802	1-214-915-00	METAL	120K	1%	1/2W		
6643	1-249-417-11	CARBON	1K	5%	1/4W		R6803	1-249-421-11		2.2K	5%	1/4W		
6644	1-249-429-11		10K	5%	1/4W	•	R6804	1-247-807-31		100	5%	1/4W		
6645	1-260-131-11		470K		1/2W		R6805	1-247-807-31		100	5% •°	1/4W		
646	1-249-429-11	CARBON	10K	5%	1/4W		R6806	1-249-411-11	CARBON	330	5%	1/4W		
6647	1-249-410-11	CARBON	270	5%	1/4W		R6807	1-249-411-11	CARBON	330	5%	1/4W		
6648	1-247-863-91	CARBON	22K	5%	1/4W		R6808	1-260-340-11	CARBON	10K	5%	1/2W		
6649	1-215-926-00	METAL OXIDE	33K	5%	3W	F	R6809	1-260-340-11	CARBON	10K	5%	1/2W		
651	1-247-791-91	CARBON	22	5%	1/4W		R6810	1-215-895-11	METAL OXIDE	3.3K	5%	3W	F	
652	1-249-389-11	CARBON	4.7	5%	1/4W	F	"""		(KV-28FX6	0A/28FX	K60B/2			
	1-249-421-11	CADDON	2 277	5%	1 / 417			1-216-460-11					F	
6653		CARBON	2.2K		1/4W			1-210-400-11		3.9K		3W	_	
655	1-249-429-11		10K	5%	1/4W				(KV-32FX6				32FX6UE/	
	1-218-265-11		8.2M		1W				32FX60	)K/32FX	60R/3	2FX60U)		
657	1-215-424-00	METAL	1.3K		1/4W									
666	1-202-933-61	FUSIBLE	0.1	10%	1/2W	F	R6811	1-216-461-00	METAL OXIDE	5.6K	5%	2₩	F	
							R6812	1-215-895-11	METAL OXIDE	3.3K	5%	2W	F	
667	1-215-441-00	METAL	6.8K	1%	1/4W		R6813	1-215-895-11	METAL OXIDE	3.3K	5%	2W	F	
668	1-249-429-11	CARBON	10K	5%	1/4W		R6814	1-215-880-00	METAL OXIDE	10	5%	2W	F	
5669	1-249-413-11		470	5%	1/4W		R6815	1-215-880-00		10	5%	2W	F	
670	1-249-417-11		1K	5%	1/4W			000 00					-	
676	1-249-417-11		1K	5% 5%	1/4W		R6816	1-216-361-00	METAL OXIDE	0.22	5%	2W	F	
10 / 0	1-249-417-11	CARDON	IV	Jo	1/44		R6817	1-216-361-00			5% 5%	2 W	F	
	1 040 417 11	01 DD 011	1 **	<b>F</b> 0	1 / 4**					0.22			1	
677	1-249-417-11		1K	5% 	1/4W		R6818	1-247-807-31		100	5%	1/4W		
678	1-249-417-11	CARBON	1K	5%	1/4W		R6819	1-247-807-31		100	5%	1/4W		
679	1-215-479-00	METAL	270K	1%	1/4W		R6831	1-260-124-11	CARBON	120K	5%	1/2W		
681	1-215-467-00	METAL	82K	1%	1/4W									
682	1-215-447-00	METAL	12K	1%	1/4W		R6832	1-216-434-11	METAL OXIDE	1.8K	5%	1W	F	
							R6833	1-202-972-61	FUSIBLE	1	5%	1/4W	F	
683	1-215-429-00	METAL	2.2K	1%	1/4W		R6834	1-249-377-11		0.47	5%	1/4W		
684	1-247-807-31		100	5%	1/4W		R6835	1-249-377-11		0.47	5%	1/4W		
685	1-249-417-11	CARBON	1K	5% 5%	1/4W		R6836	1-249-431-11		15K	J 0	1/ 111	•	
686	1-215-449-00	METAL	15K	ე∘ 1%	1/4W		K0050	1-249-451-11	(KV-28FX6		760p/3	0057500	/20EV60E/	
									•				ZOFACUL/	
5687	1-249-431-11	CARBON	15K	5%	1/4W			1-249-429-11		10K	5%	8FX60U) 1/4W		
6688	1-249-417-11	CARBON	1K	5%	1/4W				(KV-32FX6	0A/32FX	(60B/3		32FX60E/	
5700	1-215-441-00	METAL	6.8K		1/4W				•			2FX60U)	,	
5701	1-215-439-00	METAL	5.6K		1/4W				521110	,,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0011, 5			
701	1-213-439-00					20EV60E/	D6027	1 015 004 11	MEMAT OVIDE	2 277	E 0.	014	77	
		(KV-28FX60					R6837	1-215-894-11		2.2K		2W	F	
	1 015 105 00		•		28FX60U	1	R6838	1-260-119-11		47K	5% •°	1/2W	_	
	1-215-437-00		4.7K		1/4W		R6839	1-215-894-11		2.2K			F	
		(KV-32FX60					R6840	1-247-843-11		3.3K		1/4W		
		32FX6	0K/32F	X60R/3	32FX60U		R6842	1-260-123-11	CARBON	100K	5%	1/2W		
5702	1-215-441-00	METAL	6.8K	1%	1/4W		R6843	1-249-429-11	CARBON	10K	5%	1/4W		
703	1-215-439-00	METAL	5.6K	1%	1/4W		R6844	1-249-441-11	CARBON	100K	5%	1/4W		
		(KV-28FX60				28FX60E/	R6845	1-247-863-91		22K	5%	1/4W		
					28FX60U)		R6851	1-260-123-11		100K		1/4W		
	1-215-437-00		4.7K		1/4W	•	1.0001	1 200 125 11	(KV-28FX6				/28EY60E/	
	1 213-431-00	(KV-32FX60			•	22EV60E /							TOLVOOF/	
		*	•			•		1 000 107 11		•		8FX60U)		
		32FX6	UK/32F	xbur/3	32FX60U)	1		1-260-127-11		220K		1/2W	/00 <del></del>	
						_			(KV-32FX6				32FX60E/	
	1-249-383-11		1.5	5%	1/4W	F			32FX60	)K/32FX	60R/3	2FX60U)		
		CARBON	22	5%	1/4W									
5704 5705	1-247-791-91		220	5%	2W	F	R6852	1-260-123-11	CARBON	100K	5%	1/4W		
	1-247-791-91 1-215-888-00	METAL OXIDE	220				1		(KV-28FX6			•	/28EY60E/	
5705 5707			1.8	1%	1/2W		1				100012	COLVOOD	ZULKUUE	
5705 5707 5708	1-215-888-00 1-214-798-21	METAL	1.8		1/2W 1/2W				•				ZOPKOUL/	
5705 5707 5708	1-215-888-00	METAL		1% 1%	1/2W 1/2W			1-260-127-11	28FX60	)K/28FX	60R/2	8FX60U)	ZOFROUE	
5705 5707 5708 5709	1-215-888-00 1-214-798-21 1-214-798-21	METAL METAL	1.8	1%	1/2W			1-260-127-11	28FX60 CARBON	)K/28FX 220K	60R/2 5%	8FX60U) 1/2W		
5705 5707 5708	1-215-888-00 1-214-798-21	METAL METAL CARBON	1.8	1% 5%				1-260-127-11	28FX60 CARBON (KV-32FX6	0K/28FX 220K 0A/32FX	60R/2 5% K60B/3	8FX60U) 1/2W		

T6651

1-431-732-11 TRANSFORMER, CONVERTER (SRT)

D	



REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK		
R6853	1-260-123-11	CARBON 10	00K 5% 1/4W	T6801	1-433-489-11	TRANSFORMER, FERRITE (HD	T)		
			28FX60B/28FX60D/28FX60E/	T6802		TRANSFORMER, FERRITE (HD			
		•	28FX60R/28FX60U)			TRANFORMER, ASSY, FLYBAC	K (NX-4512/U2B4)		
	1-260-127-11		20K 5% 1/2W	T6805		TRANSFORMER, DRIVE	m\		
			32FX60B/32FX60D/32FX60E/ 32FX60R/32FX60U)	T6852	1-426-896-11	TRANSFORMER, FERRITE (DF	T)		
DC0E4	1 047 001 01	CARROW 1s	Z F0 1/AT		< THE	RMISTOR >			
R6854 R6856	1-247-831-91 1-216-486-00		K 5% 1/4W .2K 5% 3W F	mussoo .	A 1 000 007 11	THERMISTOR, POSITIVE			
00000	1-210-466-00	(KV-28FX60A/2	.2K	TH6700	1-800-193-00	· · · · · · · · · · · · · · · · · · ·			
	1-215-922-11	METAL OXIDE 6.	.8K 5% 3W F	*****	******	*******	******		
			32FX60B/32FX60D/32FX60E/ 32FX60R/32FX60U)		*A-1640-341-A	E BOARD, COMPLETE (KV-28	FX60)		
			•			*****	·		
R6857	1-216-486-00		.2K 5% 3W F		*A-1640-337-A	E BOARD, COMPLETE (KV-32	FX60)		
			28FX60B/28FX60D/28FX60E/ 28FX60R/28FX60U)			*****			
	1-215-922-11		.8K 5% 3W F		< CAP	PACITOR >			
			32FX60B/32FX60D/32FX60E/	2404.6	1 101 661 11		000 05**		
		32FX60K/3	32FX60R/32FX60U)	C4316 C4317	1-104-664-11	ELECT 47MF CERAMIC CHIP 0.1MF	20% 25V 10% 25V		
R6858	1-216-486-00	MEMAT OVIDE 0	.2K 5% 3W F	C4317		CERAMIC CHIP 0.1MF	10% 25V 10% 25V		
K0030	1-210-400-00		28FX60B/28FX60D/28FX60E/	C4318		CERAMIC CHIP 0.1MF	10% 25V 10% 25V		
		•	28FX60R/28FX60U)	C4319		CERAMIC CHIP 0.1MF	10% 25V		
	1-215-922-11		.8K 5% 3W F	04320	1 104 004 11	CDIVINIC CHIL U.IM	100 257		
	1 110 711 11		32FX60B/32FX60D/32FX60E/	C4321	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V		
			32FX60R/32FX60U)	C4322		CERAMIC CHIP 0.1MF	10% 25V		
		5, 5	,,	C4324		CERAMIC CHIP 0.1MF	10% 25V		
R6859	1-216-486-00	METAL OXIDE 8.	.2K 5% 3W F	C4325		CERAMIC CHIP 10PF	5% 50V		
		(KV-28FX60A/2	28FX60B/28FX60D/28FX60E/			(KV-32FX60A/32FX60B/3	2FX60D/32FX60E/		
		28FX60K/2	28FX60R/28FX60U)			32FX60K/32FX60R/3	2FX60U)		
	1-215-922-11	METAL OXIDE 6.	.8K 5% 3W F						
			32FX60B/32FX60D/32FX60E/	C4329	1-126-963-11		20% 50V		
		32FX60K/3	32FX60R/32FX60U)	C4330	1-136-165-00		5% 50V		
				C4331	1-126-959-11		20% 50V		
R6880	1-215-436-00		.3K 1% 1/4W	C4332		CERAMIC CHIP 0.1MF	10% 25V		
R6885	1-215-493-00		·· · · · · · · · · · · ·	C4333	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V		
R6886	1-215-477-00		20K 1% 1/4W	04224	1-126-967-11	DI BOM 47MB	000 E017		
R6887	1-215-461-00		7K 1% 1/4W OOK 5% 1/4W	C4334	1-126-967-11		20% 50V		
R6888	1-249-441-11	CARDON I	00K 5% 1/4W	C4336 C4338		ELECT 47MF CERAMIC CHIP 0.1MF	20% 50V 10% 25V		
R6889	1-249-421-11	CARBON 2	.2K 5% 1/4W	C4336 C4340	1-104-004-11		20% 50V		
R6890	1-249-421-11		.2K 5° 1/4W 2OK 5% 1/4W	C4340 C4342		CERAMIC CHIP 0.01MF	10% 50V		
R6891	1-247-895-91		70K 5% 1/4W	0.012					
R6892	1-249-437-11		7K 5% 1/4W	C4343	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V		
R6893	1-249-429-11		OK 5% 1/4W	C4344		CERAMIC CHIP 0.047MF	10% 25V		
			•	C4345	1-126-967-11		20% 50V		
R6895	1-249-443-11		.47 5% 1/4W F	C4346		CERAMIC CHIP 0.1MF	10% 25V		
R6896	1-249-443-11	CARBON 0.	.47 5% 1/4W F	C4347	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V		
	< RE	LAY >		C4348		CERAMIC CHIP 0.1MF	10% 25V		
				C4349		CERAMIC CHIP 0.1MF	10% 25V		
		RELAY, AC POWER RELAY, AC POWER		C4350	1-164-004-11	ELECT 0.1MF (KV-28FX60A/28FX60B/2	20% 50V 8FX60D/28FX60E/		
		,		28FX60K/28FX60R/28FX60U)					
	< TR	ANSFORMER >			1-126-963-11		20% 50V		
						(KV-32FX60A/32FX60B/3			
		TRANSFORMER, CONTRANSFORMER, C				32FX60K/32FX60R/3			



REF. NO.	PART.NO	DESCRIPTION	REM	ARK	REF. NO.	PART.NO	DESCRIPTION	N REMARK
C4351	1-164-009-11	CERAMIC CHIP 0.001MF (KV-28FX60A/28FX60B		50V RFX60E/		< DIC	DE >	
		28FX60K/28FX60H		,,	D4302	8-719-025-29	DIODE 02CZ5.1	-TE85L
	1-164-161-11	CERAMIC CHIP 0.0022MF		50V				DA/28FX60B/28FX60D/28FX60E/
		(KV-32FX60A/32FX60B	3/32FX60D/32	PX60E/			•	K/28FX60R/28FX60U)
		32FX60K/32FX60E			D4303	8-719-041-97	DIODE MA113-(	· ·
			,					)A/28FX60B/28FX60D/28FX60E/
C4352	1-126-967-11	ELECT 47MF	20% 5	50V				K/28FX60R/28FX60U)
C4353	1-107-823-11	CERAMIC CHIP 0.47MF	10% 1	L6V				•
C4354	1-107-823-11	CERAMIC CHIP 0.47MF	10% 1	L6V	D4304	8-719-923-60	DIODE MTZJ-T-	77-9.1A
C4355	1-164-004-11	CERAMIC CHIP 0.1MF	10% 2	25V	D4305	8-719-923-60	DIODE MTZJ-T-	77-9.1A
C4356	1-164-004-11	CERAMIC CHIP 0.1MF	10% 2	25V	D4311	8-719-914-43	DIODE DAN202K	
					D4312	8-719-914-43	DIODE DAN202K	
C4357	1-164-004-11	CERAMIC CHIP 0.1MF	10% 2	25V	D4313		DIODE MA3062M	
		(KV-28FX60A/28FX60B	3/28FX60D/28	FX60E/				
		28FX60K/28FX60F				< FER	RITE BEAD >	
	1-163-009-11	CERAMIC CHIP 0.001MF		25V				
		(KV-32FX60A/32FX60B	/32FX60D/32	FX60E/	FB4387	1-414-234-22	INDUCTOR CHIP	OUH
		32FX60K/32FX60E		<b>,</b>	FB4388		INDUCTOR CHIP	
			.,,,		FB4389		INDUCTOR CHIP	
C4358	1-164-004-11	CERAMIC CHIP 0.1MF	10% 2	25V				
C4359		CERAMIC CHIP 0.0022MF		50V		< IC	>	
C4360	1-126-963-11			50V				
		(KV-28FX60A/28FX60B			IC4301	8-752-086-23	IC CXA21000-TL	1
		28FX60K/28FX60E		,,	1 -01001	0 102 000 20		
	1-126-966-11			50V		< COI	L >	
		(KV-32FX60A/32FX60B					_ ,	
		32FX60K/32FX60E		,	L4301	1-414-183-41	TNDUCTOR	10UH
		JEINOUN, JEINOU	, 52211000,		L4302	1-414-183-41		10UH
C4361	1-126-967-11	ELECT 47MF	20% 5	50V	L4303	1-414-183-41		10UH
0.002	1 120 00, 11	(KV-28FX60A/28FX60B			L4304	1-414-183-41		10UH
		28FX60K/28FX60H		,,	L4305	1-414-183-41		10UH
C4362	1-164-004-11	CERAMIC CHIP 0.1MF		25V	1 -1500			
C4363	1-126-967-11			50V	L4306	1-414-183-41	INDUCTOR	10UH
					L4307	1-414-183-41		10UH
C4364	1-126-967-11	ELECT 47MF	20% 5	50V	-1557			)A/28FX60B/28FX60D/28FX60E/
C4366		CERAMIC CHIP 0.01MF		50V			•	K/28FX60R/28FX60U)
		(KV-32FX60A/32FX60B			L4308	1-408-609-41		33UH
		32FX60K/32FX60H		,	-:		21.500201	550.
C4367	1-104-760-11	CERAMIC CHIP 0.047MF		50V	L4309	1-408-609-41	INDUCTOR	33UH
	/	(KV-32FX60A/32FX60B						333.
		32FX60K/32FX60E		,		< TRA	NSISTOR >	
			.,			, 114		
C4369	1-164-004-11	CERAMIC CHIP 0.1MF	10% 2	25V	Q4304	8-729-216-22	TRANSISTOR 2S	A1162-G
C4370	1-126-967-11			50V	Q4305			A2412K-T-146-R
C4371		CERAMIC CHIP 0.1MF		25V	2.555			)A/28FX60B/28FX60D/28FX60E/
C4377	1-126-960-11			50V			•	K/28FX60R/28FX60U)
C4379		CERAMIC CHIP 47PF		50V	Q4306	8-729-620-06		A2412K-T-146-R
		(KV-32FX60A/32FX60B			1 2 3 3 3			)A/28FX60B/28FX60D/28FX60E/
		32FX60K/32FX60E		<b>,</b>			•	K/28FX60R/28FX60U)
		,	, ,					
C4380	1-163-005-11	CERAMIC CHIP 470PF	10% 5	50V	Q4307	8-729-216-22	TRANSISTOR 2S	A1162-G
C4381		CERAMIC CHIP 82PF		50V	Q4308		TRANSISTOR 2S	
C4518		CERAMIC CHIP 1MF		16V	Q4309		TRANSISTOR 2S	
			•		Q4310		TRANSISTOR 2S	
	< 0.01	NNECTOR >			Q4315		TRANSISTOR DT	
	. 001	······································			2.525			
CN4101	1-695-301-11	CONNECTOR, BOARD TO BO	ARD 40P					
CN4500		PLUG, CONNECTOR 8P						
CN4502		PIN, CONNECTOR 3P						
	_ 500 570 51	- and - animalan ar						



REF. NO.	PART.NO	DESCRIPTION	ON		REMARK	REF. NO.	PART.NO	DESC	RIPTION		REMARK	
Q4316	8-729-620-06	TRANSISTOR 2	SC2412K-T	-146-		R4365	1-216-025-91	RES.CHI	P 100	5%	1/10W	
<b>L</b> -0-0	•					R4366	1-216-025-91			5%	1/10W	
			0K/28FX60			R4367	1-216-025-91			5%	1/10W	
	8-719-918-98	TRANSISTOR S	•		,	R4368	1-215-097-91				1/10W	
				B/32FX	K60D/32FX60E/						28FX60D/28FX60E/	,
			0K/32FX60						28FX60K/28FX			
				•	,	R4369	1-216-073-00			5%	1/10W	
Q4317	8-729-900-53	TRANSISTOR D	TC114EK							60B/	28FX60D/28FX60E/	1
Q4318	8-729-216-22	TRANSISTOR 2	SA1162-G					·	28FX60K/28FX	60R/	28FX60U)	
	< RES	SISTOR >				R4370	1-216-077-00	RES,CHI	P 15K	5%	1/10W	
						R4371	1-216-069-00	RES, CHI	P 6.8K	5%	1/10W	
R4301	1-216-025-91	RES,CHIP	100 5	용	L/10W	R4372	1-216-049-91	RES,CHI	P 1K	5%	1/10W	
R4302	1-216-025-91	RES,CHIP	100 5	ક :	L/10W	R4373	1-216-073-00	RES,CHI	P 10K	5%	1/10W	
R4303	1-216-025-91	RES, CHIP	100 5		L/10W	R4374	1-216-049-91	RES, CHI	P 1K	5%	1/10W	
R4304	1-216-025-91	RES,CHIP	100 5	8	L/10W							
R4305	1-216-025-91	RES,CHIP	100 5	ક	L/10W	R4375	1-216-049-91			5%	1/10W	
						R4376	1-216-049-91	RES, CHI	P 1K	5%	1/10W	
R4306	1-216-025-91	RES, CHIP	100 5		L/10W	R4377	1-216-049-91	RES,CHI	P 1K	5%	1/10W	
R4313	1-216-065-91	RES, CHIP	4.7K 5	ક	L/10W	R4378	1-216-101-00	RES, CHI	P 150K	5%	1/10W	
R4314	1-216-057-00	RES,CHIP	2.2K 5	8	L/10W	R4380	1-216-073-00	RES, CHI	P 10K	5%	1/10W	
R4331	1-216-073-00	RES,CHIP	10K 5	8	L/10W							
R4332	1-216-073-00	RES,CHIP	10K 5	ક :	L/10W	R4381	1-216-127-11	RES, CHI	P 1.8M	5%	1/10W	
								(KV-	32FX60A/32FX	60B/	32FX60D/32FX60E/	1
R4333	1-216-073-00	RES,CHIP	10K 5	ક :	L/10W				32FX60K/32FX	60R/	32FX60U)	
R4334	1-216-025-91	RES, CHIP	100 5	ક :	L/10W	R4382	1-216-073-00	RES, CHI	P 10K	5%	1/10W	
R4335	1-216-025-91	RES,CHIP	100 5	8	L/10W	R4383	1-216-079-00	RES, CHI	P 18K	5%	1/10W	
R4336	1-216-025-91	RES,CHIP	100 5	8	L/10W			(KV-	32FX60A/32FX	60B/	32FX60D/32FX60E/	1
R4337	1-216-025-91	RES, CHIP	100 5	કે :	L/10W				32FX60K/32FX	60R/	32FX60U)	
R4339	1-216-049-91	RES,CHIP	1K 5	ક	L/10W	R4384	1-216-025-91	RES,CHI	P 100	5%	1/10W	
R4340	1-216-111-00	RES, CHIP	390K 5	8	L/10W	R4387	1-216-025-91	RES, CHI	P 100	5%	1/10W	
R4341	1-216-295-91		0			R4388	1-216-025-91	RES, CHI	P 100	5%	1/10W	
R4343	1-216-025-91		100 5	કે :	L/10W	R4389	1-216-025-91			5%	1/10W	
R4344	1-216-025-91	RES,CHIP	100 5	8	L/10W	R4395	1-216-295-91	SHORT	0			
R4345	1-216-677-11	METAL CHIP	12K 0	.50%	L/10W	R4396	1-216-295-91	SHORT	0			
R4346	1-216-683-11	METAL CHIP	22K 0	.50%	L/10W	R4398	1-216-025-91	RES, CHI	P 100	5%	1/10W	
R4347	1-216-025-91	RES,CHIP			L/10W	R4401	1-216-105-91	RES, CHI	P 220K	5%	1/10W	
R4348	1-216-025-91		100 5	ફ	L/10W	R4402	1-216-129-00	RES, CHI	P 2.2K	5%	1/10W	
R4350	1-216-025-91				L/10W			(KV-		60B/	28FX60D/28FX60E/	1
R4354	1-216-675-11	METAL CHIP	10K 0	.50%∶	L/10W							
R4358	1-216-071-00		8.2K 5		L/10W	R4403	1-216-073-00					
R4359	1-216-041-00	RES,CHIP	470 5		L/10W			•			28FX60D/28FX60E/	ļ
R4360	1-216-057-00		2.2K 5		L/10W				28FX60K/28FX	60R/	28FX60U)	
		(KV-28FX6	0A/28FX60	B/28F	K60D/28FX60E/	R4404	1-216-073-00	RES,CHI	P 10K	5%	1/10W	
		28FX6	0K/28FX60	R/28F	(60U)			(KV-	28FX60A/28FX	60B/	28FX60D/28FX60E/	ļ
	1-216-061-00		3.3K 5		L/10W				28FX60K/28FX	60R/	28FX60U)	
		(KV-32FX6	0A/32FX60	B/32F	K60D/32FX60E/							
		32FX6	0K/32FX60	R/32FX	(60U)	R4405	1-216-087-91	RES,CHI	P 39K	5%	1/10W	
								(KV-	28FX60A/28FX	60B/	28FX60D/28FX60E/	į.
R4361	1-216-133-00	RES, CHIP	3.3M 5	8	L/10W				28FX60K/28FX			
R4362	1-216-049-91	RES, CHIP	1K 5		L/10W	R4406	1-216-105-91	RES,CHI	P 220K	5%	1/10W	
		(KV-28FX6	0A/28FX60	B/28F	K60D/28FX60E/			(KV-	28FX60A/28FX	60B/	28FX60D/28FX60E/	Į.
			0K/28FX60						28FX60K/28FX			
R4363	1-216-025-91		100 5		L/10W						•	
	_: := <del>-</del>	,		,		R4407	1-216-091-00	RES, CHI	P 56K	5%	1/10W	
R4364	1-216-097-91	RES, CHIP	100K 5	8	L/10W						28FX60D/28FX60E/	,
					K60D/28FX60E/				28FX60K/28FX			
			0K/28FX60			R4504	1-216-295-91		0	1		
		201110	,	,					•			



EF. NO.	PART.NO	DESCRIPTION	ON		REI	MARK	REF. NO.	PART.NO	DESCRIPT	ON		RE	MARK
4505	1-216-295-91	SHORT	0				D5405	8-719-924-11	DIODE MTZJ-	T-77-22			
4506	1-216-295-91	SHORT	0				D5406	8-719-924-11	DIODE MTZJ-	T-77-22			
507	1-216-121-91	RES, CHIP	1M	5%	1/10W								
1518	1-216-025-91		100		1/10W			< FEF	RRITE BEAD >				
1519	1-216-025-91		100		1/10W								
4500	1 010 005 01	440D#	•				FB5400	1-410-397-21		1.10			
4520	1-216-295-91		0				FB5401	1-410-396-41	FERRITE	0.45	UH		
4521	1-216-295-91		0										
4522 4523	1-216-295-91 1-216-295-91		0					< COI	.L >				
1023	1-210-293-91	SHORT	U				L5400	1-410-784-41	INDUCTOR	0.18	UH		
	< CRY	STAL >						ע שר	NSISTOR >				
4300	1-767-127-11	VIBRATOR, CI	ERAMIC					\ IN	mololok >				
		,					Q5400	8-729-119-78	TRANSISTOR	2SC2785-	HFE		
*****	*****	*****	******	*****	*****	*****	Q5401	8-729-119-78	TRANSISTOR	2SC2785-	HFE		
							Q5402	8-729-119-78	TRANSISTOR	2SC2785-	HFE		
	*A-1644-094-A	VM BOARD, CO	OMPLETE				Q5403	8-729-119-78	TRANSISTOR	2SC2785-	HFE		
		*****					Q5404	8-729-026-41					
	A_202 OFA 11	CODDM /MOV1/	יים מיי	۱ د /			OFACE	0_700 006 41	пруистошо⊳	2670227	OD#		
	4-382-854-11	PCKEM (W2XI)	υ), P, SW	(+)			Q5405	8-729-026-41			-QKT		
		ACTMOD .					Q5406	8-729-017-05					
	< CAP	ACITOR >					Q5407	8-729-017-06	TKANSISTOR	ZSC4 /93			
5400	1-107-883-11	ELECT	330MF	2	20%	16V		< RES	SISTOR >				
5401	1-126-935-11	ELECT	470MF	2	90%	16V							
5402	1-137-370-11	FILM	0.01MF	5	i&	50V	R5400	1-249-401-11	CARBON	47	5%	1/4W	
5403	1-126-935-11		470MF		20%	6.3V	R5401	1-249-421-11		2.2K		1/4W	
5405	1-126-933-11		100MF			16V	R5402	1-249-413-11		470	5%	1/4W	
							R5403	1-249-393-11		10	5%	1/4W	F
5406	1-126-935-11	ELECT	470MF	2	20%	6.3V	R5404	1-249-417-11		1K	5%	1/4W	_
5407	1-104-989-91		0.0022M		i%	200V						-,	
5408	1-104-989-91		0.0022M		; ;}	200V	R5405	1-249-425-11	CARBON	4.7K	5%	1/4W	
5409	1-107-649-11		2.2MF		?0%	250V	R5406	1-249-425-11		4.7K		1/4W	
5410	1-137-364-11		0.001MF		i& i%	50V	R5407	1-249-399-11		33	5%	1/4W	
,,,,	1 157 501 11		0.001111	•	, ,		R5408	1-247-807-31		100	5%	1/4W	
5411	1-137-364-11	TTT.M	0.001MF	5	5%	50V	R5409	1-247-815-91		220	5%	1/4W	
5412	1-126-933-11		100MF			16V	ROTO	1 247 013 31	CALDON	220	30	1/ 111	
5413	1-126-933-11		100MF			16V	R5410	1-249-401-11	CARBON	47	5%	1/4W	
5414	1-107-638-11		33MF			160V	R5411	1-249-401-11		47		1/4W	
5415	1-107-363-91		0.0068M		.0% L0%	200V	R5411	1-249-401-11		10K	ა 5%	1/4W	
7417	1 101-303-31	START	0.000M	. 1		2001	R5412 R5413	1-249-429-11		560	ეგ 5%	1/4W	r r
5416	1-102-106-00	CEDAMIC	100PF	1	.0%	50V	R5413	1-249-414-11		18K	ეგ 5%	1/4W 1/4W	Ľ
5416 5419	1-102-106-00		47PF		.U5 58	50V	173414	1 742-424-11	CHADON	TOV	Jo	1/4W	
430	1-162-117-00		100PF		.0%	500V	R5415	1-260-311-11	CARRON	39	5%	1/2W	
,-30	1 102 111-00	CEIGHILC	TOOFE	1		J004	R5415	1-249-383-11		1.5	ეგ 5%	1/4W	F
	/ CON	NECTOR >					R5416	1-249-363-11		1.5 18K	ეგ 5%	1/4W 1/4W	Ľ
	< CON	MECION /					R5417	1-249-432-11		560	ეგ 5%	1/4W	
N5402	*1-568-878-51	PTN CONNEC	TOR 3P				R5410 R5419	1-249-414-11		2.2K		1/4W	
	*1-770-723-11			BOARD	8P		1.5413	1 247-421-11	CUITOIA	2.21	J 0	1/ 7N	
	1-695-915-11						R5420	1-249-421-11	CARBON	2.2K	5%	1/4W	
15602	*1-568-881-51						R5421	1-249-383-11		1.5	5%	1/4W	F
	5 222 <b>202 32</b>		_ >=				R5422	1-249-400-11		39	5% 5%	1/4W	
	< DIC	DE >					R5423	1-215-914-11			5%	3W	
	, 510						R5425	1-249-419-11		1.5K		1/4W	-
5400	8-719-991-33	DIODE 1SS13	3т-77									-, •	
5401	8-719-510-02												
5402	8-719-991-33		3Т-77										
	3 5 55 2 55												
5403	8-719-991-33	DIODE 18813	3T-77				1						





REF. NO.	PART.NO	DESCRIPTION	N	R	EMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
	*A-1646-170-A	H1 BOARD, COM					*A-1651-100-A		28FX60A/28FX60B/ 28FX60D/28FX60E/ 28FX60R/28FX60U/
	< CA	PACITOR >						32FX60A/	32FX60D/32FX60E/ 32FX60R/32FX60U)
C7900 C7901	1-101-810-00 1-101-810-00		100PF 100PF	5% 5%	500V 500V		*A-1651-104-A	J BOARD, COMPLETE (KV-	
C7925	1-101-010-00		0.022MF	5% 5%	50V				
C7926	1-137-372-11		0.022MF	5%	50V		< CAP	ACITOR >	
	< COI	NNECTOR >				C8100	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
						C8101		CERAMIC CHIP 0.47MF	10% 16V
CN7103	*1-564-514-11	PLUG, CONNECT	OR 11P			C8102		CERAMIC CHIP 0.047MF	10% 50V
	< JA	CK >				C8103 C8104	1-104-664-11 1-126-934-11		20% 16V 20% 16V
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	<b></b> ,				"			200
J7900		TERMINAL BLOC	CK, S			C8105	1-126-933-11		20% 16V
J7925	1-764-606-11	JACK				C8106	1-126-933-11		20% 16V
						C8107	1-126-933-11		20% 16V
	< CO:	IL >				C8108	1-126-933-11		20% 16V
L7925	1-414-183-41	TNDUCTOR	10UH			C8109	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
L7925	1-414-163-41		10UH			C8110	1_164_004_11	CERAMIC CHIP 0.1MF	10% 25V
11320	1 414 105 41	INDUCTOR	10011			C8111	1-126-933-11		20% 16V
	< RE	SISTOR >				C8125		CERAMIC CHIP 0.47MF	10% 16V
	·	010101.				C8126		CERAMIC CHIP 0.47MF	10% 16V
R7900	1-535-303-00	LEAD, JUMPER	(5.0MM)			C8127		CERAMIC CHIP 0.1MF	10% 15V
R7901	1-249-417-11	· ·	1K 5%	1/4W		00227		V2.12.12 V.1.1.1	200
R7902	1-247-895-91		470K 5%	1/4W		C8128	1-104-664-11	ELECT 47MF	20% 16V
R7903	1-247-895-91		470K 5%	1/4W		C8129		CERAMIC CHIP 0.47MF	10% 16V
R7904		LEAD, JUMPER		-,		C8130	1-107-823-11		10% 16V
			(0.0000)			C8131		CERAMIC CHIP 0.47MF	10% 16V
R7905 R7906	1-249-417-11	CARBON LEAD, JUMPER	1K 5%	1/4W		C8132		CERAMIC CHIP 0.47MF	10% 16V
K/900	1-555-505-00	LEAD, JUMPER	(S.UMM)			C8133	1-104-664-11	ELECT 47MF	20% 16V
******	*****	******	*****	*****	****	C8134	1-104-664-11		20% 16V
						C8135		CERAMIC CHIP 2.2MF	16V
	*A-1648-016-A	U BOARD, COME	PLETE			C8136		CERAMIC CHIP 100PF	5% 50V
		*****				C8137		CERAMIC CHIP 2.2MF	16V
	< CA	PACITOR >				C8138	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
						C8139	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C7961	1-101-005-00	CERAMIC	0.022MF		50V	C8140	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C7962	1-101-005-00	CERAMIC	0.022MF		50V	C8141	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
	. 001	ATATE COMOD				C8142	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
	< 001	NNECTOR >				C8143	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
CN7101	1-573-299-21	CONNECTOR, BO	DARD TO BOA	RD 10P		C8144		CERAMIC CHIP 0.47MF	10% 16V
CN7977		PLUG, CONNECT				C8145		CERAMIC CHIP 0.47MF	10% 16V
CN7988		PLUG, CONNECT				C8146		CERAMIC CHIP 100PF	5% 50V
CN7990		PLUG, CONNECT				C8200	1-104-664-11	ELECT 47MF	20% 16V
	< JA	CK >				C8201	1-163-241-11	CERAMIC CHIP 39PF	5% 50V
						C8202		CERAMIC CHIP 0.1MF	10% 25V
J7952	1-537-339-11	TERMINAL BOAR	SD.			C8203	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
						C8204	1-164-506-11	CERAMIC CHIP 4.7MF	16V
	< CO:	IL >				C8205	1-165-319-11	CERAMIC CHIP 0.1MF	50V
L7954	1-402-711-11	TNDUCTOR	0UH			C8208	1-164-506-11	CERAMIC CHIP 4.7MF	16V
L7956	1-402-711-11		OUH			C8209		CERAMIC CHIP 100PF	5% 50V
,,,,,	1 102 /11 11	111200101	V VII			C8210		CERAMIC CHIP 100FF	10% 25V
						50210	1 104-004-11	CLICATIO CHIE V.INE	100 234

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REF. NO.  C8211 C8212 C8213 C8214 C8215  C8216 C8217 C8218 C8219 C8220  C8221 C8222 C8223 C8224 C8225  C8228 C8229 C8230 C8231 C8232 C8233 C8234 C8233 C8234 C8233 C8233 C8234	PART.NO  1-163-243-11 1-163-087-00 1-163-087-00 1-163-243-11  1-126-933-11 1-164-004-11 1-126-964-11 1-126-964-11 1-104-664-11 1-104-664-11 1-104-664-11 1-104-664-11 1-104-664-11 1-104-664-11 1-104-664-11 1-163-009-11 1-163-009-11 1-163-009-11	CERAMIC CHIP ELECT ELECT ELECT ELECT CERAMIC CHIP	47PF 47PF 4PF 4PF 47PF 100MF 0.1MF 10MF 0.1MF 10MF 47MF 47MF	5% 5% 0.25PF 0.25PF 5% 20% 10% 20% 20% 20% 20% 20% 20%		C8322 C8323 C8324 C8325 C8326  C8327 C8328 C8329 C8330 C8331  C8332 C8343	PART.NO  1-126-933-11 1-164-182-11 1-164-004-11 1-115-340-11 1-115-340-11 1-115-340-11 1-115-340-11 1-126-960-11  1-163-017-00	DESCRIPTION  ELECT CERAMIC CHIP ELECT CERAMIC CHIP	100MF 0.0033MF 0.1MF 0.22MF 15PF 0.22MF 0.22MF 0.22MF 15PF 1MF	20% 10% 10% 10% 5% 10% 10% 5% 20%	16V 50V 25V 25V 50V 25V 25V 25V 25V 25V 50V 50V
C8212 C8213 C8214 C8215 C8216 C8217 C8218 C8219 C8220 C8221 C8222 C8223 C8224 C8225 C8228 C8229 C8231 C8231 C8232 C8233	1-163-243-11 1-163-087-00 1-163-087-00 1-163-243-11 1-126-933-11 1-126-964-11 1-126-964-11 1-126-964-11 1-104-664-11 1-104-664-11 1-104-664-11 1-104-664-11 1-104-664-11 1-104-664-11 1-163-009-11 1-163-009-11 1-163-009-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP ELECT CERAMIC CHIP ELECT CERAMIC CHIP ELECT CERAMIC CHIP ELECT CERAMIC CHIP ELECT CERAMIC CHIP ELECT CERAMIC CHIP ELECT	47PF 4PF 4PF 47PF 100MF 0.1MF 10MF 0.1MF 10MF 47MF 47MF 47MF 47MF 0.1MF	5% 0.25PF 0.25PF 5% 20% 10% 20% 20% 20% 20% 20% 20%	50V 50V 50V 16V 25V 50V 25V 50V 16V 16V	C8323 C8324 C8325 C8326 C8327 C8328 C8329 C8330 C8331	1-164-182-11 1-164-004-11 1-115-340-11 1-163-231-11 1-115-340-11 1-115-340-11 1-115-340-11 1-163-231-11 1-126-960-11	CERAMIC CHIP ELECT	0.0033MF 0.1MF 0.22MF 15PF 0.22MF 0.22MF 0.22MF 0.22MF 15PF 1MF	10% 10% 10% 5% 10% 10% 10% 5% 20%	50V 25V 25V 50V 25V 25V 25V 25V 50V 50V
C8213 C8214 C8215 C8216 C8217 C8218 C8219 C8220 C8221 C8222 C8223 C8224 C8225 C8228 C8228 C8229 C8231 C8231 C8232 C8233	1-163-087-00 1-163-087-00 1-163-243-11 1-126-933-11 1-126-964-11 1-126-964-11 1-126-964-11 1-104-664-11 1-104-664-11 1-104-664-11 1-104-664-11 1-104-664-11 1-163-009-11 1-163-009-11 1-163-009-11	CERAMIC CHIP CERAMIC CHIP ELECT CERAMIC CHIP ELECT CERAMIC CHIP ELECT ELECT ELECT ELECT ELECT CERAMIC CHIP	4PF 4PF 47PF 100MF 0.1MF 10MF 0.1MF 10MF 47MF 47MF 47MF 47MF 0.1MF	0.25PF 0.25PF 5% 20% 10% 20% 20% 20% 20% 20% 20%	50V 50V 50V 16V 25V 50V 25V 50V 16V 16V	C8324 C8325 C8326  C8327 C8328 C8329 C8330 C8331	1-164-004-11 1-115-340-11 1-163-231-11 1-115-340-11 1-115-340-11 1-115-340-11 1-163-231-11 1-126-960-11	CERAMIC CHIP ELECT	0.1MF 0.22MF 15PF 0.22MF 0.22MF 0.22MF 15PF 1MF	10% 10% 5% 10% 10% 5% 20%	50V 25V 25V 50V 25V 25V 25V 25V 50V 50V
8213 8214 8215 8216 8217 8218 8219 8220 8221 8222 8223 8224 8225 8228 8229 8230 8231 8232	1-163-087-00 1-163-087-00 1-163-243-11 1-126-933-11 1-126-964-11 1-126-964-11 1-126-964-11 1-104-664-11 1-104-664-11 1-104-664-11 1-104-664-11 1-104-664-11 1-163-009-11 1-163-009-11 1-163-009-11	CERAMIC CHIP CERAMIC CHIP ELECT CERAMIC CHIP ELECT CERAMIC CHIP ELECT ELECT ELECT ELECT ELECT CERAMIC CHIP	4PF 4PF 47PF 100MF 0.1MF 10MF 0.1MF 10MF 47MF 47MF 47MF 47MF 0.1MF	0.25PF 0.25PF 5% 20% 10% 20% 20% 20% 20% 20% 20%	50V 50V 16V 25V 50V 25V 50V 16V 16V	C8324 C8325 C8326  C8327 C8328 C8329 C8330 C8331	1-164-004-11 1-115-340-11 1-163-231-11 1-115-340-11 1-115-340-11 1-115-340-11 1-163-231-11 1-126-960-11	CERAMIC CHIP ELECT	0.1MF 0.22MF 15PF 0.22MF 0.22MF 0.22MF 15PF 1MF	10% 10% 5% 10% 10% 5% 20%	25V 25V 50V 25V 25V 25V 25V 50V
8214 8215 8216 8217 8218 8219 8220 8221 8222 8223 8224 8225 8228 8229 8230 8231 8232	1-163-243-11 1-126-933-11 1-126-964-11 1-126-964-11 1-126-964-11 1-104-664-11 1-104-664-11 1-104-664-11 1-104-664-11 1-104-664-11 1-163-009-11 1-163-009-11 1-163-009-11	CERAMIC CHIP CERAMIC CHIP ELECT CERAMIC CHIP ELECT ELECT ELECT ELECT ELECT CERAMIC CHIP ELECT CERAMIC CHIP ELECT CERAMIC CHIP	4PF 47PF 100MF 0.1MF 10MF 0.1MF 10MF 47MF 47MF 47MF 0.1MF	0.25PF 5% 20% 10% 20% 10% 20% 20% 20% 20% 20% 20%	50V 50V 16V 25V 50V 25V 50V 16V 16V	C8325 C8326 C8327 C8328 C8329 C8330 C8331	1-115-340-11 1-163-231-11 1-115-340-11 1-115-340-11 1-163-231-11 1-126-960-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP ELECT	0.22MF 15PF 0.22MF 0.22MF 0.22MF 15PF 1MF	10% 5% 10% 10% 10% 5% 20%	25V 50V 25V 25V 25V 25V 50V
8215 8216 8217 8218 8219 8220 8221 8222 8223 8224 8225 8228 8229 8230 8231 8232	1-163-243-11 1-126-933-11 1-126-964-11 1-126-964-11 1-126-964-11 1-104-664-11 1-104-664-11 1-104-664-11 1-104-664-11 1-104-664-11 1-163-009-11 1-163-009-11 1-163-009-11	CERAMIC CHIP ELECT CERAMIC CHIP ELECT ELECT ELECT ELECT ELECT CERAMIC CHIP ELECT CERAMIC CHIP ELECT	47PF 100MF 0.1MF 10MF 0.1MF 10MF 47MF 47MF 47MF 0.1MF	5% 20% 10% 20% 10% 20% 20% 20% 20% 20% 20%	50V 16V 25V 50V 25V 50V 16V 16V	C8326  C8327  C8328  C8329  C8330  C8331	1-163-231-11 1-115-340-11 1-115-340-11 1-115-340-11 1-163-231-11 1-126-960-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP ELECT	15PF 0.22MF 0.22MF 0.22MF 15PF 1MF	5% 10% 10% 10% 5% 20%	50V 25V 25V 25V 50V 50V
8217 8218 8219 8220 8221 8222 8223 8224 8225 8228 8229 8230 8231 8232 8233	1-164-004-11 1-126-964-11 1-164-004-11 1-126-964-11 1-104-664-11 1-104-664-11 1-164-004-11 1-104-664-11 1-163-009-11 1-163-009-11 1-163-009-11	CERAMIC CHIP ELECT CERAMIC CHIP ELECT ELECT ELECT CERAMIC CHIP ELECT CERAMIC CHIP	0.1MF 10MF 0.1MF 10MF 47MF 47MF 47MF 0.1MF	10% 20% 10% 20% 20% 20% 20% 10%	25V 50V 25V 50V 16V 16V	C8328 C8329 C8330 C8331	1-115-340-11 1-115-340-11 1-163-231-11 1-126-960-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP ELECT	0.22MF 0.22MF 15PF 1MF	10% 10% 5% 20%	25V 25V 50V 50V
8217 8218 8219 8220 8221 8222 8223 8224 8225 8228 8229 8230 8231 8232 8233	1-164-004-11 1-126-964-11 1-164-004-11 1-126-964-11 1-104-664-11 1-104-664-11 1-164-004-11 1-104-664-11 1-163-009-11 1-163-009-11 1-163-009-11	ELECT CERAMIC CHIP ELECT ELECT ELECT CERAMIC CHIP ELECT CERAMIC CHIP	0.1MF 10MF 0.1MF 10MF 47MF 47MF 47MF 0.1MF	10% 20% 10% 20% 20% 20% 20% 10%	25V 50V 25V 50V 16V 16V	C8328 C8329 C8330 C8331	1-115-340-11 1-115-340-11 1-163-231-11 1-126-960-11	CERAMIC CHIP CERAMIC CHIP ELECT	0.22MF 15PF 1MF	10% 10% 5% 20%	25V 25V 50V 50V
8218 8219 8220 8221 8222 8223 8224 8225 8228 8229 8230 8231 8232	1-164-004-11 1-126-964-11 1-104-664-11 1-104-664-11 1-164-004-11 1-163-009-11 1-163-009-11 1-163-009-11	ELECT CERAMIC CHIP ELECT ELECT ELECT CERAMIC CHIP ELECT CERAMIC CHIP	10MF 0.1MF 10MF 47MF 47MF 47MF 0.1MF	20% 10% 20% 20% 20% 20% 10%	50V 25V 50V 16V 16V	C8329 C8330 C8331	1-115-340-11 1-163-231-11 1-126-960-11	CERAMIC CHIP CERAMIC CHIP ELECT	0.22MF 15PF 1MF	10% 5% 20%	25V 50V 50V
8219 8220 8221 8222 8223 8224 8225 8228 8229 8230 8231 8232	1-164-004-11 1-126-964-11 1-104-664-11 1-104-664-11 1-164-004-11 1-163-009-11 1-163-009-11 1-163-009-11	CERAMIC CHIP ELECT ELECT ELECT CERAMIC CHIP ELECT CERAMIC CHIP	0.1MF 10MF 47MF 47MF 47MF 0.1MF	10% 20% 20% 20% 20% 20% 10%	25V 50V 16V 16V	C8330 C8331 C8332	1-163-231-11 1-126-960-11	CERAMIC CHIP ELECT	15PF 1MF	5% 20%	50V 50V
8220 8221 8222 8223 8224 8225 8228 8229 8230 8231 8232	1-104-664-11 1-104-664-11 1-104-664-11 1-164-004-11 1-104-664-11 1-163-009-11 1-163-009-11 1-163-009-11	ELECT ELECT ELECT CERAMIC CHIP ELECT CERAMIC CHIP	10MF 47MF 47MF 47MF 0.1MF	20% 20% 20% 20% 10%	50V 16V 16V	C8331 C8332		ELECT	1MF	20%	
8222 8223 8224 8225 8228 8228 8229 8230 8231 8232	1-104-664-11 1-104-664-11 1-164-004-11 1-104-664-11 1-163-009-11 1-163-009-11 1-163-009-11	ELECT ELECT CERAMIC CHIP ELECT CERAMIC CHIP	47MF 47MF 0.1MF	20% 20% 10%	16V		1-163-017-00	CERAMIC CHIP		10%	50V
8223 8224 8225 8228 8229 8230 8231 8232	1-104-664-11 1-164-004-11 1-104-664-11 1-163-009-11 1-163-009-11 1-163-009-11	ELECT CERAMIC CHIP ELECT CERAMIC CHIP	47MF 0.1MF	20% 10%		C8343			0.0047MF		
88223 88224 88225 88228 88229 88230 88231 88232	1-104-664-11 1-164-004-11 1-104-664-11 1-163-009-11 1-163-009-11 1-163-009-11	ELECT CERAMIC CHIP ELECT CERAMIC CHIP	47MF 0.1MF	20% 10%			1-163-185-00	CERAMIC CHIP	150PF	5%	50V
8224 8225 8228 8229 8230 8231 8232	1-164-004-11 1-104-664-11 1-163-009-11 1-163-009-11 1-163-009-11	CERAMIC CHIP ELECT CERAMIC CHIP	0.1MF	10%				<b></b>			-32FX60B)
28225 28228 28229 28230 28231 28232	1-104-664-11 1-163-009-11 1-163-009-11 1-163-009-11	ELECT CERAMIC CHIP			25V	C8344	1-163-173-00	CERAMIC CHIP	47PF	5%	50V
8229 8230 8231 8232 8233	1-163-009-11 1-163-009-11			20%	16V	00311	1 103 173 00	02.12.10			-32FX60B)
28229 28230 28231 28232 28233	1-163-009-11 1-163-009-11		0 001MF	10%	50V	C8345	1-126-933-11	ELECT	100MF	20%	16V
28230 28231 28232 28233	1-163-009-11	July Chil		10% 10%	50V	00343	1 120 933-11	20001	70011		-32FX60B)
8231 8232 8233		CERAMIC CHIP		10%	50V	C8450	1-104-664-11	ELECT	47MF	20%	16V
8232 8233	T TOD_002_TT	CERAMIC CHIP		10%	50V	C8451	1-104-664-11	ELECT	47MF	20% 20%	16V 16V
8233	1-164-004-11	CERAMIC CHIP		10%	25V	C8451	1-115-340-11	CERAMIC CHIP		20% 10%	25V
	1-104-004-11	CERAMIC CHIP	O. TWL	<b>T</b> 02	237	C6433	1-113-340-11	CERAMIC CHIP	U.ZZMF	104	257
8234	1-104-664-11	ELECT	47MF	20%	16V	C8456	1-115-340-11	CERAMIC CHIP	0.22MF	10%	25V
ULU :	1-107-823-11	CERAMIC CHIP	0.47MF	10%	16V	C8601	1-115-340-11	CERAMIC CHIP	0.22MF	10%	25V
8235	1-107-823-11	CERAMIC CHIP	0.47MF	10%	16V	C8602	1-115-340-11	CERAMIC CHIP	0.22MF	10%	25V
8236	1-126-933-11	ELECT	100MF	20%	16V	C8605	1-115-340-11	CERAMIC CHIP		10%	25V
:8237	1-163-021-91	CERAMIC CHIP		10%	50V	C8606	1-115-340-11	CERAMIC CHIP		10%	25V
:8238	1-164-505-11	CERAMIC CHIP	2.2MF		16V	C8607	1-104-664-11	ELECT	47MF	20%	16V
:8239	1-107-823-11	CERAMIC CHIP	0.47MF	10%	16V	C8608	1-104-664-11	ELECT	47MF	20%	16V
8240	1-107-823-11	CERAMIC CHIP		10%	16V	C8609	1-115-340-11	CERAMIC CHIP		10%	25V
8241	1-126-964-11		10MF	20%	50V	C8610	1-115-340-11	CERAMIC CHIP		10%	25V
8242	1-104-664-11		47MF	20%	16V	C8611	1-115-340-11	CERAMIC CHIP		10%	25V
8300	1-115-340-11	CERAMIC CHIP	0.22MF	10%	25V	C8612	1-115-340-11	CERAMIC CHIP	0.22MF	10%	25V
8301	1-164-004-11	CERAMIC CHIP		10%	25V	C8613	1-104-664-11	ELECT	47MF	20%	16V
8302		CERAMIC CHIP		10% 10%	25V	C8614	1-104-664-11		47MF	20%	16V
8303	1-115-340-11			10%	25V	C8700	1-126-964-11		10MF	20%	50V
8304	1-164-004-11			10%	25V	C8701	1-104-664-11		47MF	20%	16V
8305	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	C8702	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
8306	1-164-004-11			10%	25V	C8702	1-164-004-11			ე. 10%	25V
8307	1-164-004-11			10% 10%	25V	C8704	1-163-021-91			10%	50V
8308	1-126-933-11		100MF	20%	16V	C8705	1-163-021-91			10%	50V
8310	1-164-004-11			10%	25V	C8706	1-163-235-11			5%	50V
8311	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	C8707	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
8312	1-164-004-11			10%	25V	C8707	1-164-004-11			ეი 10%	25V
8313	1-164-004-11			10% 10%	25V	C8709	1-126-964-11		10MF	20%	50V
8314	1-164-004-11			10%	25V	C8710	1-126-933-11		100MF	20%	16V
8315	1-164-004-11			10%	25V 25V	C8900	1-120-955-11			20% 5%	50V
0313	1-104-004-11	CERNATIC CHIP	O. THE	T0.0	234	C0300	1-103-231-11	CERAPIC CHIP	TOOLE	Jo	JUV
8316	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	C8901	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
8317	1-164-004-11			10%	25V	C8902	1-163-017-00			10%	50V
8318	1-126-933-11		100MF	20%	16V	C8903	1-163-251-11			5%	50V
8319	1-164-004-11			10%	25V	C8904	1-163-251-11			5%	50V
8320	1-164-004-11			10%	25V	C8905	1-163-251-11			5%	50V
		CERAMIC CHIP	0 1MF	10%	25V	C8906	1-163-017-00	רבים אוור רטוים	0 0047ME	10%	50V

REF. NO.	PART.NO	DESCRIPTION	F	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK	
C8907	1-163-017-00	CERAMIC CHIP 0.0047MF	10%	50V	D8919	8-719-914-43	DIODE DAN202K-T-146		
C8908		CERAMIC CHIP 100PF	5%	50V	D8920		DIODE DAN202K-T-146		
C8909	1-163-017-00	CERAMIC CHIP 0.0047MF	10%	50V	D8921	8-719-976-99	DIODE UDZ-TE-17-5.1B		
C8910	1-163-251-11	CERAMIC CHIP 100PF	5%	50V	D8922	8-719-056-84	DIODE UDZ-TE-17-7.5B		
C8911	1-163-017-00	CERAMIC CHIP 0.0047MF	10%	50V	D8923	8-719-978-04	DIODE DTZ-TT11-3.3B		
C8916	1-126-933-11	ELECT 100MF	20%	16V		< FIL	TER >		
C8977	1-163-009-11	CERAMIC CHIP 0.001MF	10%	50V					
C8978	1-163-009-11	CERAMIC CHIP 0.001MF	10%	50V	FL8200		ENCAPSULATED COMPONENT		
					FL8201	1-233-764-21			
	< FII	LTER >			FL8203		ENCAPSULATED COMPONENT		
CF8200	1_400_227_00	MDAD CEDAMIC /6 EMUZ\			FL8300 FL8301		ENCAPSULATED COMPONENT ENCAPSULATED COMPONENT		
CF 6200	1-409-327-00	TRAP, CERAMIC (6.5MHZ)			1 10201	1-230-0/1-11	ENCAPSULATED COMPONENT		
	< CON	NECTOR >			FL8700	1-236-071-11	ENCAPSULATED COMPONENT		
					FL8701	1-236-071-11	ENCAPSULATED COMPONENT		
CN8101		CONNECTOR, BOARD TO BOA	ARD 50P						
CN8102		PLUG, CONNECTOR 3P				< IC	>		
CN8900		SOCKET, PIN 21P							
CN8901	1-695-293-11				IC8100		IC TDA7309D013TR		
CN8902	1-695-293-11	SUCKET ZIP			IC8101 IC8125	8-759-085-34 8-759-351-01			
	< DIC	אחר >			IC8151		IC CXA1875AM-T4		
	( DIC	)UE /			IC8200		IC MSP3410D-QA-B4		
D8125	8-719-158-49	DIODE RD12SB2			100100	0 700 011 10	20 110101100 211 21		
D8126	8-719-158-49	DIODE RD12SB2			IC8201	8-759-701-36	IC NJM3403AM		
D8127	8-719-158-49	DIODE RD12SB2			IC8202	8-759-908-15	IC TL431CLP		
D8128		DIODE RD12SB2			IC8300	8-759-546-01	IC TDA9320H-N1-518		
D8129	8-719-158-49	DIODE RD12SB2			IC8451		IC MC14052BDR2		
D0120	0 710 150 40	DIODE DD100D0			IC8601	8-759-544-24	IC LF90CDT		
D8130 D8131		DIODE RD12SB2 DIODE RD12SB2			IC8602	8-759-544-23	דר ז בפטרטיי		
D8131		DIODE RD12SB2			IC8603	8-759-544-22			
D8200		DIODE RD12SB2			IC8604	8-759-544-22			
D8201		DIODE RD12SB2			IC8700	8-752-074-78			
D8202 D8203		DIODE RD12SB2				< JAC	K >		
D8203 D8349		DIODE RD12SB2 DIODE DA204K			J8901	1-774-747-11	JACK BLOCK, PIN		
D8450		DIODE RD12SB2			00301	1 //4 /4/ 11	OACK BLOCK, III		
D8451		DIODE RD12SB2				< COI	L >		
						4 44 - FF :			
D8900		DIODE UDZ-TE-17-8.2B			L8150	1-414-757-11			
D8901 D8902		DIODE UDZ-TE-17-8.2B DIODE UDZ-TE-17-8.2B			L8200 L8201		INDUCTOR CHIP 10UH INDUCTOR CHIP 100UH		
D8902		DIODE UDZ-TE-17-8.2B			L8343	1-412-004-11		(KV-32FX60B)	
D8904		DIODE UDZ-TE-17-8.2B			10343	1-410-425-11	INDOCTOR 55011	(RV-SZEROOD)	
						< TRA	NSISTOR >		
D8905		DIODE UDZ-TE-17-8.2B							
D8906		DIODE UDZ-TE-17-8.2B			Q8100	8-729-620-06			
D8907		DIODE UDZ-TE-17-8.2B			Q8101		TRANSISTOR 2SC3052-EF		
D8908		DIODE UDZ-TE-17-8.2B			Q8156	8-729-620-06			
D8909	8-719-056-85	DIODE UDZ-TE-17-8.2B			Q8157 Q8200		TRANSISTOR 2SC3052-EF TRANSISTOR 2SC3052-EF		
D8910	8-719-056-85	DIODE UDZ-TE-17-8.2B			20200	5 123 020 00	LIAMOTOTOM EDGJUJE EF		
D8911		DIODE UDZ-TE-17-8.2B			Q8201	8-729-620-06	TRANSISTOR 2SC3052-EF		
D8912		DIODE RD12SB2			Q8202	8-729-620-06	TRANSISTOR 2SC3052-EF		
D8913		DIODE RD12SB2			Q8301		TRANSISTOR IMZ1A-T109		
D8914	8-719-158-49	DIODE RD12SB2			Q8303		TRANSISTOR 2SC3052-EF		
20015	0 710 150 10	DTODE BD10650			Q8304	8-729-620-06	TRANSISTOR 2SC3052-EF		
D8915	8-119-158-49	DIODE RD12SB2							

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DEE NO	DARTHO	DECCESION.	ION		DENABA	DEE NO	DARTHO	BEARSISTIC			DEMARK.
REF. NO.	PART.NO	DESCRIPTI	IUN		REMARK	REF. NO.	PART.NO	DESCRIPTIO	N		REMARK
Q8305	8-729-620-06	TRANSISTOR	2SC3052-	EF		R8201	1-216-295-91	SHORT	0		
Q8306	8-729-620-06	TRANSISTOR	2SC3052-	EF		R8202	1-216-021-00		68	5%	1/10W
Q8307	8-729-620-06	TRANSISTOR	2SC3052-	EF		R8203	1-216-069-00	RES,CHIP	6.8K	5%	1/10W
Q8308	8-729-038-96	TRANSISTOR	IMZ1A-T1	09		R8204	1-216-049-91	RES,CHIP	1K	5%	1/10W
Q8309	8-729-038-96	TRANSISTOR	IMZ1A-T1	09		R8205	1-216-069-00	RES,CHIP	6.8K	5%	1/10W
Q8310	8-729-038-96	TRANSISTOR	IMZ1A-T1	09		R8206	1-216-049-91	RES,CHIP	1K	5%	1/10W
Q8311	8-729-620-06					R8208	1-216-037-00		330	5%	1/10W
Q8343	8-729-620-06	TRANSISTOR	2SC3052-	EF	(KV-32FX60B)	R8209	1-216-659-11	,	2.2K	0.50%	1/10W
Q8450	8-729-216-22	TRANSISTOR	2SA1162-	G	, ,	R8210	1-216-025-91		100	5%	1/10W
Q8453	8-729-216-22	TRANSISTOR	2SA1162-	G		R8211	1-216-295-91		0		
Q8456	8-729-620-06	TRANSISTOR	2SC3052-	EF		R8212	1-216-295-91	SHORT	0		
Q8459	8-729-216-22	TRANSISTOR	2SA1162-	G		R8213	1-216-295-91	SHORT	0		
Q8461	8-729-216-22	TRANSISTOR	2SA1162-	G		R8214	1-216-295-91	SHORT	0		
Q8700	8-729-620-06	TRANSISTOR	2SC3052-	EF		R8216	1-216-025-91	RES, CHIP	100	5%	1/10W
Q8900	8-729-620-06	TRANSISTOR	2SC3052-	EF		R8217	1-216-025-91	RES, CHIP	100	5%	1/10W
Q8901	8-729-620-06	TRANSISTOR	2SC3052-	EF		R8223	1-216-089-91	RES,CHIP	47K	5%	1/10W
Q8903	8-729-620-06					R8224	1-216-089-91		47K	5%	1/10W
						R8225	1-216-089-91		47K	5%	1/10W
	< RES	SISTOR >				R8226	1-216-089-91		47K	5%	1/10W
D0100	1 016 005 01	DEC CUID	100	<b>E</b> 0.	1 /1 014	R8227	1-216-089-91		47K	5%	1/10W
R8100 R8101	1-216-025-91		100 100	5% 5%	1/10W 1/10W	R8228	1_216_000_01	ספס רטדה	47K	5%	1/10W
	1-216-025-91		0	<b>3</b> 6	T/ TOM		1-216-089-91		4 / K 0	26	T/ TOM
R8102	1-216-295-91		0 47K	5%	1/10W	R8229	1-216-295-91			Ę٥	1 /1 0ឃ
R8103	1-216-089-91				•	R8230	1-216-081-00		22K	5% 5%	1/10W
R8104	1-216-089-91	KES, CHIP	47K	5%	1/10W	R8231 R8232	1-216-089-91 1-216-089-91		47K 47K	5% 5%	1/10W 1/10W
R8105	1-216-057-00	RES, CHIP	2.2K	5%	1/10W						
R8106	1-216-081-00	RES,CHIP	22K		1/10W	R8233	1-216-089-91		47K	5%	1/10W
R8107	1-216-081-00		22K		1/10W	R8234	1-216-089-91		47K	5%	1/10W
R8108	1-216-057-00		2.2K		1/10W	R8235	1-216-089-91	RES,CHIP	47K	5%	1/10W
R8109	1-249-389-11	CARBON	4.7	5%	1/4W F	R8236	1-216-089-91	RES, CHIP	47K	5%	1/10W
D0110	1_240_200_11	CADDON	47	E 0.	1/411 17	R8237	1-216-043-91	RES,CHIP	560	5%	1/10W
R8110	1-249-389-11		4.7	5% =°.	1/4W F	D0000	1 016 060 01	מדים מידים	2 022	E 0.	1 /1 017
R8111	1-216-033-00		220	5% ⊑∘	1/10W	R8238	1-216-063-91		3.9K		1/10W
R8112	1-216-033-00 1-216-033-00		220	5% 5%	1/10W	R8239	1-216-069-00		6.8K		1/10W
R8115		,	220		1/10W	R8240	1-216-651-11		1K		1/10W
R8116	1-216-033-00	red, Chip	220	5%	1/10W	R8243 R8300	1-216-021-00 1-216-041-00		68 470	5% 5%	1/10W 1/10W
R8117	1-216-033-00	RES, CHIP	220	5%	1/10W						
R8118	1-216-033-00		220	5%	1/10W	R8301	1-216-295-91	SHORT	0		
R8125	1-216-295-91	SHORT	0			R8302	1-216-017-91	RES,CHIP	47	5%	1/10W
R8126	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	R8303	1-216-041-00	RES,CHIP	470	5%	1/10W
R8127	1-216-113-00	RES,CHIP	470K	5%	1/10W	R8304	1-216-041-00		470	5%	1/10W
D0120	1 216 040 01	DEC CUID	12	E 0.	1 /1 Ow	R8305	1-216-049-91	RES,CHIP	1K	5%	1/10W
R8128	1-216-049-91		1K	5% 5%	1/10W	דחכמת	1_216_040_01	מדט מעדה	1 v	E o	1 /1 0ម
R8129	1-216-025-91 1-216-025-91		100	5% 5%	1/10W 1/10W	R8307	1-216-049-91		1K 2 2K	5% 5%	1/10W 1/10W
R8130 R8131		•	100 1 K	5% 5≥	1/10W 1/10W	R8308 R8309	1-216-057-00		2.2K		1/10W
	1-216-049-91		1K 2 2k	5% 5≗			1-216-049-91		1K 2 2K	5% 5≗	1/10W
R8132	1-216-057-00	red, Chip	2.2K	<b>J</b> 6	1/10W	R8310 R8311	1-216-057-00 1-216-085-00		2.2K 33K	5∜ 5%	1/10W 1/10W
R8133	1-216-113-00		470K	5%	1/10W						
R8165	1-216-295-91		0		4 /4 0	R8312	1-216-077-00		15K	5% <b>-</b> ∘	1/10W
R8167	1-216-025-91		100		1/10W	R8313	1-216-041-00		470	5%	1/10W
R8168	1-216-025-91		100	5%	1/10W	R8314	1-216-043-91		560	5%	1/10W
R8174	1-216-065-91	RES, CHIP	4.7K	5%	1/10W	R8316	1-216-295-91		0		
D017E	1_016_066_01	מדני מנוים	A TV	E Q	1 /1 OW	R8317	1-216-025-91	RES,CHIP	100	5%	1/10W
R8175	1-216-065-91		4.7K		1/10W	D0210	1_016 005 01	מזות מונדים	100	<b>E</b> 0.	1 /1 0ឃ
R8200	1-216-049-91	KES, CHIP	1K	5%	1/10W	R8318	1-216-025-91	KES, CHIP	100	5%	1/10W

REF. NO.	PART.NO	DESCRIPTIO	N		REMARK	REF. NO.	PART.NO	DESCRIPTIO	N		REMARK	
R8319	1-216-295-91	SHORT	0			R8467	1-216-089-91	RES CHIP	47K	5%	1/10W	
R8320	1-216-295-91		0			R8468	1-216-073-00		10K	5%	1/10W	
R8321	1-216-049-91		1K	5%	1/10W	R8469	1-216-033-00		220	5%	1/10W	
R8322	1-216-049-91		1K	5%	1/10W	R8470	1-216-022-00	,	75	5%	1/10W	
R8323	1-216-097-91		100K	5%	1/10W	R8472	1-216-089-91		47K	5%	1/10W	
10323	1 210 037 31	MD, CIIII	1001	30	1/1011	ROTTE	1 210 005 51	NED, CHII	7/10	<b>J</b> 0	1/1011	
R8325	1-216-041-00		470	5%	1/10W	R8473	1-216-073-00	,	10K	5%	1/10W	
R8326	1-216-041-00	,	470	5%	1/10W	R8474	1-216-033-00		220	5%	1/10W	
R8327	1-216-041-00		470	5%	1/10W	R8475	1-216-022-00		75	5%	1/10W	
R8328	1-216-041-00		470	5%	1/10W	R8700	1-216-049-91		1K	5%	1/10W	
R8329	1-216-041-00	RES,CHIP	470	5%	1/10W	R8701	1-216-073-00	RES,CHIP	10K	5%	1/10W	
R8330	1-216-041-00	RES,CHIP	470	5%	1/10W	R8702	1-216-025-91	RES,CHIP	100	5%	1/10W	
R8331	1-216-041-00		470	5%	1/10W	R8703	1-216-025-91		100	5%	1/10W	
R8332	1-216-041-00		470	5%	1/10W	R8704	1-216-025-91	RES, CHIP	100	5%	1/10W	
R8333	1-216-041-00		470	5%	1/10W	R8705	1-216-295-91		0		·	
R8334	1-216-017-91		47	5%	1/10W	R8706	1-216-049-91		1K	5%	1/10W	
DOSSE	1 016 017 01	DEC CUID	47	E 0.	1 /101	D0707	1 216 000 01	DEC CUID	4717	E 0.	1 /1 014	
R8335	1-216-017-91		47	5% 5°	1/10W	R8707	1-216-089-91		47K	5% 5°	1/10W	
R8337	1-216-077-00		15K	5% •°	1/10W	R8708	1-216-089-91		47K	5% <b>5</b> °	1/10W	
R8338	1-216-017-91		47	5% 5°	1/10W	R8900	1-216-039-00		390	5% F°	1/10W	
R8339	1-216-017-91		47	5%	1/10W	R8901	1-216-049-91	,	1K	5% = °	1/10W	
R8340	1-216-049-91	RES, CHIP	1K	5%	1/10W	R8902	1-216-039-00	RES,CHIP	390	5%	1/10W	
R8343	1-216-041-00	RES, CHIP	470	5%	1/10W	R8903	1-216-089-91	RES.CHIP	47K	5%	1/10W	
		,			(KV-32FX60B)	R8904	1-216-089-91		47K	5%	1/10W	
R8344	1-216-041-00	RES.CHIP	470	5%	1/10W	R8905	1-216-113-00	,	470K		1/10W	
		,			(KV-32FX60B)	R8906	1-216-039-00		390	5%	1/10W	
R8345	1-216-033-00	RES.CHIP	220	5%	1/10W	R8907	1-216-057-00	,	2.2K		1/10W	
					(KV-32FX60B)			,			-,	
					,,	R8908	1-216-039-00	RES.CHIP	390	5%	1/10W	
R8346	1-216-295-41	SHORT	0			R8909	1-216-049-91		1K	5%	1/10W	
				50B/281	FX60D/28FX60E/	R8911	1-216-063-91		3.9K		1/10W	
					FX60U/32FX60A/	R8913	1-216-022-00	,	75	5%	1/10W	
					FX60K/32FX60R/	R8914	1-216-071-00		8.2K	5%	1/10W	
		32FX60	)U)									
						R8915	1-216-022-00	,	75	5%	1/10W	
R8347	1-216-025-91	RES,CHIP	100	5%	1/10W	R8916	1-216-033-00	,	220	5%	1/10W	
					(KV-32FX60B)	R8917	1-216-033-00		220	5%	1/10W	
R8348	1-216-295-91		0		(KV-32FX60B)	R8918	1-216-113-00		470K		1/10W	
R8349	1-216-121-91		1M	5%	1/10W	R8919	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	
R8350	1-216-073-00	RES,CHIP	10K	5%	1/10W	R8922	1-216-022-00	DEG GUID	75	E0.	1/10W	
R8351	1_216_072_00	DEC CUID	102	5%	1 /1 017	R8923	1-216-022-00		75 75	5% 5°		
	1-216-073-00		10K		1/10W		1-216-022-00		75	5% = °	1/10W	
R8352	1-216-089-91	RES, CHIP	47K	36	1/10W	R8924			75	5% 5%	1/10W	
R8353	1 216 001 00	DEC CUID	22K	E 0.	(KV-32FX60B)	R8925 R8926	1-216-022-00	,	75 220	5% 5%	1/10W	
K0333	1-216-081-00	RES, CHIP	221	20	1/10W (KV-32FX60B)	K0920	1-216-033-00	RES, CHIP	220	J*	1/10W	
					(	R8927	1-216-033-00	RES, CHIP	220	5%	1/10W	
R8354	1-216-067-00	RES,CHIP	5.6K	5%	1/10W	R8928	1-216-033-00	RES,CHIP	220	5%	1/10W	
R8355	1-216-057-00	RES, CHIP	2.2K	5%	1/10W	R8929	1-216-039-00	RES,CHIP	390	5%	1/10W	
R8356	1-216-057-00		2.2K		1/10W	R8930	1-216-049-91		1K	5%	1/10W	
R8450	1-216-089-91		47K	5%	1/10W	R8931	1-216-039-00		390	5%	1/10W	
R8451	1-216-073-00		10K	5%	1/10W							
20150	1 010 000 00	DEG 6"	45	<b>F</b> 0	4 /4 000	R8932	1-216-049-91		1K	5%	1/10W	
R8453	1-216-089-91		47K		1/10W	R8933	1-216-089-91		47K		1/10W	
R8454	1-216-073-00		10K		1/10W	R8934	1-216-089-91		47K		1/10W	
R8455	1-216-057-00		2.2K		1/10W	R8935	1-216-113-00		470K		1/10W	
R8460	1-216-057-00		2.2K		1/10W	R8936	1-216-113-00	RES, CHIP	470K	5%	1/10W	
R8462	1-216-073-00	KES, CHIP	10K	2%	1/10W	R8937	1-216-039-00	BES CHID	390	<b>5</b> 2	1/10W	
						10937	1 210-033-00	MED, CHIE	230	J-0	1/1011	



REF. NO.	PART.NO	DESCRIPTION	ON	REMAI	RK	REF. NO.	PART.NO	DESCRIPTION	REMARK
R8938	1-216-057-00	RES, CHIP	2.2K	5% 1/10W			MI	SCELLANEOUS	
R8939	1-216-039-00	RES, CHIP	390				**	*****	
R8940	1-216-057-00		2.2K	5% 1/10W					
R8941	1-216-063-91		3.9K	5% 1/10W		Δ	1-416-466-11	COIL, DEMAGNETIC (K	7-28FX60)
R8942	1-216-009-00	RES, CHIP	22	5% 1/10W		Δ		COIL, DEMAGNETIC (KV MAGNETIC DISK; 10MM	
R8943	1-216-022-00	RES, CHIP	75	5% 1/10W			1-452-094-00	MAGNETIC, ROTATABLE	DISK; 15MM
R8944	1-216-071-00	RES, CHIP	8.2K	5% 1/10₩		Δ	1-453-272-11	TRANSFORMER ASSY, F	LYBACK
R8945	1-216-022-00	RES, CHIP	75 .	5% 1/10W				(NX-4512)	/U2B4) (KV-28FX60)
R8946	1-216-033-00	RES, CHIP	220	5% 1/10W					
R8947	1-216-039-00	RES,CHIP	390 !	5% 1/10W				SPEAKER (4.8X20CM) SPEAKER (13CM)	
R8948	1-216-049-91	RES, CHIP	1K !	5% 1/10W			1-452-896-11	COIL, NA ROTATION (	RT200)
R8949	1-216-022-00		75 !	5% 1/10W				,	•
R8950	1-216-089-91		47K			Δ	1-571-433-21	SWITCH, PUSH (AC PO	NER)
R8951	1-216-033-00		220					CORD, POWER (WITH CO	
R8952	1-216-113-00		470K					(KV-28FX60A/28FX60	
		,		-,				28FX60K/28FX60	R/32FX60A/32FX60B/
R8953	1-216-039-00	RES, CHIP	390	5% 1/10₩				32FX60D/32FX60	E/32FX60K/32FX60R)
R8954	1-216-057-00		2.2K	5% 1/10W					
R8955	1-216-039-00	RES, CHIP	390	5% 1/10W		Δ	1-590-762-21	CORD, POWER (WITH U	K PLUG)
R8956	1-216-049-91	RES, CHIP	1K .	5% 1/10₩				(KV	7-28FX60U/32FX60U)
R8957	1-216-049-91	RES, CHIP	1K !	5% 1/10W			1-693-338-11		
								(KV-28FX60A/28FX60	
R8958	1-216-089-91	,		5% 1/10₩				·	R/32FX60A/32FX60D/
R8959	1-216-022-00			5% 1/10W				32FX60E/32FX60	K/32FX60R)
R8960	1-216-033-00		220						••
R8961	1-216-022-00			5% 1/10₩				TUNER/VIF (FR) (KV-	
R8963	1-216-113-00	RES,CHIP	470K	5% 1/10W		Δ		TUNER/VIF (UK) (KV-	
R8964	1-216-039-00	RES, CHIP	390	5% 1/10₩		Δ	8-735-054-05	PICTURE TUBE (W76LL)	Z060X) (SD-302)
R8965	1-216-057-00	RES, CHIP	2.2K	5% 1/10₩					(KV-32FX60)
R8968	1-216-022-00	RES, CHIP	75 !	5% 1/10W					
R8969	1-216-033-00	RES, CHIP	220	5% 1/10W				DEFLECTION YOKE (Y2)	
R8977	1-216-037-00	RES,CHIP	330	5% 1/10W				DEFLECTION YOKE (Y2) NECK ASSY, NA299-M	BRVC2) (KV-32FX60)
R8978	1-216-037-00	RES, CHIP	330	5% 1/10W		Δ	1-251-317-31	CAP ASSY, HIGH VOLTA	AGE
R8979	1-216-045-00	RES, CHIP	680	5% 1/10W					
R8980	1-216-045-00	,	680	5% 1/10W		******	*****	******	******
R8981	1-216-085-00	RES, CHIP	33K	5% 1/10W					
R8982	1-216-057-00	RES,CHIP	2.2K	5% 1/10W				CESSORIES AND PACKAGII	NG MATERIALS (KV-28FX60)
R8983	1-216-077-00	RES, CHIP	15K	5% 1/10W					
R8987	1-216-081-00	•	22K				4-204-548-41	MANUAL, INSTRUCTION	(KV-28FX60A)
R8988	1-216-081-00		22K	5% 1/10W					(ITALIAN)
R8989	1-216-081-00		22K				4-204-548-51	MANUAL, INSTRUCTION	(KV-28FX60B)
R8990	1-216-057-00	RES, CHIP	2.2K	5% 1/10₩					MAN/ITALIAN/DUTCH)
D0001	1_216_007_01	מדט מעדי	1000	ΣQ 1/1Λεσ			4-204-548-11	MANUAL, INSTRUCTION	(KV-28FX60D) SH/GERMAN/TURKISH)
R8991 R8992	1-216-097-91 1-216-057-00		100K ! 2.2K !					(GERMAN/ENGLIS	on, German, Turkton)
		•					4 004 E40 71	MANUAL THOMBUOMTON	(MIL JOHNEUM)
R8993	1-216-057-00	RES,CHIP	2.2K	5% 1/10W				MANUAL, INSTRUCTION	(SPANISH)
W0000		YSTAL >	N/AM3 T				4-204-548-81		SE/FINNISH/DANISH/
X8200	1-781-148-21	,						NORWEGIAN	N/SWEDISH)
X8300	1-567-504-11						4 004 540 04	1/11/11/1 TUAMBUAH	/mr 00mrc0r/00mrc0n\
X8301	1-567-505-11						4-204-548-91	MANUAL, INSTRUCTION	
x8700	1-767-342-21	VIBRATOR, CE	KISTAL				4-204-548-61	(RUSSIAN/BULGARI MANUAL, INSTRUCTION	•
							*4-020-160-01	BAG, PROTECTION	(ENGLISH)
							4-052-100-01	DAG, FROIECTION	

REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
	*4-204-451-01	INDIVIDUAL CARTON CUSHION (UPPER) (AS CUSHION (LOWER) (AS					
*****	******	******	*****				
		CESSORIES AND PACKAGI	NG MATERIALS (KV-32FX60)				
	4-204-561-41	MANUAL, INSTRUCTION	(KV-32FX60A) (ITALIAN)				
	4-204-561-51	MANUAL, INSTRUCTION (FRENCH/GER	'				
	4-204-561-11	MANUAL, INSTRUCTION	· · · · · · · · · · · · · · · · · · ·				
	4-204-561-71		(KV-32FX60E) SE/FINNISH/DANISH/ NORWEGIAN/SWEDISH)				
	4-204-561-91	MANUAL, INSTRUCTION (F	V-32FX60K/32FX60R) IAN/ENGLISH/CZECH)				
	4-204-561-61	MANUAL, INSTRUCTION					
	*4-029-168-01	BAG, PROTECTION	(=,				
	*4-204-378-01	INDIVIDUAL CARTON					
	*4-204-387-01	CUSHION (UPPER) (AS	SY)				
	*4-204-388-01	CUSHION (LOWER) (AS	SY)				
*****	******	******	*****				
		MOTE COMMANDER					
	1-418-047-11	REMOTE COMMANDER (R	M-891)				

# SONY

## **SERVICE MANUAL**

AE-5 CHASSIS

MODEL	COMMANDER	DEST	CHASSIS NO.	MODEL	COMMANDER	DEST	CHASSIS NO.
KV-28FX60A	RM-892	ET	SCC-Q12D-A	KV-32FX60A	RM-892	ET	SCC-Q12B-A
KV-28FX60E	<b>R</b> M-892	FR	SCC-Q13D-A	KV-32FX60E	RM-892	FR	SCC-Q13B-A
KV-28FX60L	RM-892	AEP	SCC-Q11D-A	KV-32FX60[	RM-892	AEP	SCC-Q11B-A
KV-28FX60E	RM-892	ESP	SCC-Q14D-A	KV-32FX60E	RM-892	ESP	SCC-Q14B-A
KV-28FX60F	RM-892	OIRT	SCC-Q16F-A	KV-32FX60k	RM-892	OIRT	SCC-Q16A-A
KV-28FX60F	RM-892	OIRT	SCC-Q16E-A	KV-32FX60F	RM-892	OIRT	SCC-Q16B-A
KV-28FX60U	RM-892	UK	SCC-Q15C-A	KV-32FX60U	RM-892	UK	SCC-Q15B-A

### **SUPPLEMENT - 1**

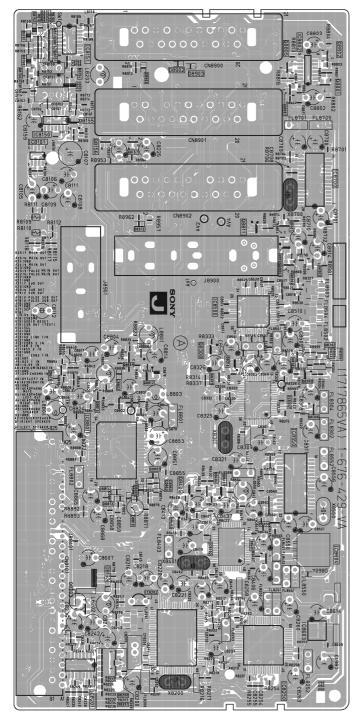
SUBJECT: INTRODUCTION OF NEW J (REFINE) BOARD

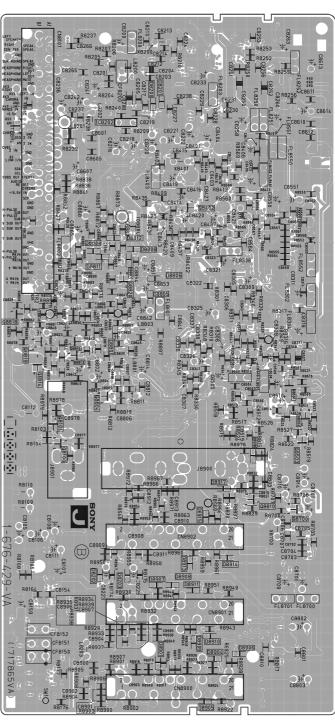
File this supplement with the service manual

INTRODUCTION: 1. Introduction of new J (refine) board.

**SECTION 5 DIAGRAMS (J Board, Page 63)** 

SECTION 7 ELECTRICAL PARTS LIST (Page 147)





### **ELECTRICAL PARTS LIST**

When indicating parts by reference number, please include the board name.

CAPACITORS COILS MF: mF, PF: mmF MMH: mH, uH

Items marked "\*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

#### RESISTORS

All resistors are in ohms. F: nonflammable.

Note: Les composants indentifies par une trame et par une marque ∆ sonte d'une importance critique pour la securite. Ne les remplacer que par des pieces du numero specifie.

Note: The components identified by shading and marked △ are critical for safety.

Replace only with the part numbers specified in the parts list.

				1 . Hollifallifiable					
REF. NO.	PART.NO	DESCRIPTION		REMARK	REF. NO.	PART.NO	DESCRIPTION	1.77	REMARK
Α-				RD, J (REFINE)	C8224	1-164-004-11	CERAMIC CHIP 0.		10.00% 25V
		-28FX60A/2 X60E/28FX6			C8225	1-104-664-11		UF	20.00% 16V
		X60E/26FX6 X60U/32FX6			C8227	1-163-009-11	CERAMIC CHIP 0.		10.00% 50V
		X606/32FX6 X60E/32FX6			C8228	1-163-009-11	CERAMIC CHIP 0.		10.00% 50V
	021	ACCI-OZI AC	JOIN/OLI /	ACCTI/	C8229	1-163-009-11	CERAMIC CHIP 0.	.001UF	10.00% 50V
<b>A-1</b>	651-119-A M	OUNTED PO	BOAR	D, J (REFINE)				• • • • • • • • • • • • • • • • • • • •	
		-28FX60B)			C8230	1-163-009-11			10.00% 50V
					C8231	1-163-009-11	CERAMIC CHIP 0.		10.00% 50V
	<capacito< td=""><td>)R&gt;</td><td></td><td></td><td>C8232</td><td>1-164-004-11</td><td>CERAMIC CHIP 0.</td><td></td><td>10.00% 25V</td></capacito<>	)R>			C8232	1-164-004-11	CERAMIC CHIP 0.		10.00% 25V
					C8233	1-104-664-11		UF	20.00% 16V
C8105	1-126-933-11	ELECT	100UF	20.00% 16V	C8234	1-107-823-11	CERAMIC CHIP 0.	47UF	10.00% 16V
C8106	1-126-933-11	ELECT	100UF	20.00% 16V					
C8107	1-126-935-11	ELECT	470UF	20.00% 16V	C8235	1-107-823-11			10.00% 16V
C8108	1-126-933-11	ELECT	100UF	20.00% 16V	C8236	1-126-933-11		OUF	20.00% 16V
C8109	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V	C8237	1-163-021-91	CERAMIC CHIP 0.		10.00% 50V
					C8238	1-164-505-11	CERAMIC CHIP 2.		16V
C8110	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V	C8239	1-107-823-11	CERAMIC CHIP 0.	47UF	10.00% 16V
C8111	1-126-933-11	ELECT	100UF	20.00% 16V					
C8112	1-128-551-11	ELECT	22UF	20.00% 25V	C8240	1-107-823-11	CERAMIC CHIP 0.		10.00% 16V
C8144	1-107-823-11	CERAMIC CHIP	0.47UF	10.00% 16V	C8241	1-126-964-11	ELECT 10		20.00% 50V
C8145	1-107-823-11	CERAMIC CHIP	0.47UF	10.00% 16V	C8242	1-104-664-11		UF	20.00% 16V
					C8243	1-110-501-11	CERAMIC CHIP 0.	33UF	10.00% 16V
C8200	1-104-664-11	ELECT	47UF	20.00% 16V	C8301	1-163-037-11	CERAMIC CHIP 0.	022UF	10.00% 50V
C8201	1-163-241-11	CERAMIC CHIP	39PF	5.00% 50V					
C8202	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V	C8302	1-163-021-91	CERAMIC CHIP 0.	01UF	10.00% 50V
C8203	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V	C8303	1-126-933-11	ELECT 10	OUF	20.00% 16V
C8204	1-164-506-11	CERAMIC CHIP	4.7UF	16V	C8304	1-115-340-11	CERAMIC CHIP 0.	22UF	10.00% 25V
					C8305	1-163-021-91	CERAMIC CHIP 0.	01UF	10.00% 50V
C8205	1-165-319-11	CERAMIC CHIP	0.1UF	50V	C8306	1-107-823-11	CERAMIC CHIP 0.	47UF	10.00% 16V
C8208	1-164-506-11	CERAMIC CHIP	4.7UF	16V					
C8209	1-163-251-11	CERAMIC CHIP	100PF	5.00% 50V	C8307	1-115-340-11	CERAMIC CHIP 0.	22UF	10.00% 25V
C8210	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V	C8308	1-115-340-11	CERAMIC CHIP 0.	22UF	10.00% 25V
C8211	1-163-243-11	CERAMIC CHIP	47PF	5.00% 50V	C8309	1-126-961-11	ELECT 2.	2UF	20.00% 50V
					C8311	1-104-664-11	ELECT 47	UF	20.00% 16V
C8212	1-163-243-11	CERAMIC CHIP	47PF	5.00% 50V	C8313	1-163-021-91	CERAMIC CHIP 0.	01UF	10.00% 50V
C8213	1-163-087-00	CERAMIC CHIP	4PF	0.25PF 50V					
C8214	1-163-087-00	CERAMIC CHIP	4PF	0.25PF 50V	C8314		CERAMIC CHIP 0.	01UF	10.00% 50V
C8215	1-163-243-11	CERAMIC CHIP	47PF	5.00% 50V	C8318	1-104-664-11	ELECT 47	UF	20.00% 16V
C8216	1-126-933-11		100UF	20.00% 16V	C8321	1-104-664-11		UF	20.00% 16V
					C8322	1-163-227-11	CERAMIC CHIP 10	)PF	0.50PF 50V
C8217	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V	C8323	1-164-004-11	CERAMIC CHIP 0.	1UF	10.00% 25V
C8218	1-126-964-11	ELECT	10UF	20.00% 50V					
C8219		CERAMIC CHIP		10.00% 25V	C8324	1-164-004-11	CERAMIC CHIP 0.	1UF	10.00% 25V
C8220	1-126-964-11		10UF	20.00% 50V	C8325	1-126-964-11	ELECT 10	)UF	20.00% 50V
C8221	1-104-664-11		47UF	20.00% 16V	C8326	1-104-664-11	ELECT 47	UF	20.00% 16V
					C8327	1-107-682-11	CERAMIC CHIP 1U	JF	10.00% 16V
C8222	1-104-664-11	ELECT	47UF	20.00% 16V	C8328	1-104-664-11	ELECT 47	UF	20.00% 16V
C8223	1-104-664-11		47UF	20.00% 16V					
					1				

REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
C8329	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C8706	1-163-235-11	CERAMIC CHIP 22PF	5.00% 50V
C8331	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C8707	1-163-235-11	CERAMIC CHIP 22PF	5.00% 50V
C8332	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C8708	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C8333	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C8709	1-126-964-11	ELECT 10UF	20.00% 50V
C8334	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C8710	1-126-933-11	ELECT 100UF	20.00% 16V
90225	1 160 001 01	GDD1VTG GUTD A A100	10.000 50**	90001	1 164 004 11	0001110 0110 A 1110	10.000.05**
C8335	1-163-021-91		10.00% 50V	C8801	1-164-004-11		10.00% 25V
C8336	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C8802	1-104-664-11		20.00% 16V
C8337	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C8803	1-104-664-11	ELECT 47UF	20.00% 16V
C8338	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C8804	1-126-933-11	ELECT 100UF	20.00% 16V
C8345	1-164-346-11	CERAMIC CHIP 1UF	16V	C8810	1-164-222-11	CERAMIC CHIP 0.22UF	25V
C8346	1-126-963-11	ELECT 4.7UF	20.00% 50V	C8811	1-164-222-11	CERAMIC CHIP 0.22UF	25V
C8424	1-115-340-11	CERAMIC CHIP 0.22UF	10.00% 25V	C8812	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C8501	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C8814	1-104-664-11	ELECT 47UF	20.00% 25V
C8503	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C8822	1-126-933-11	ELECT 100UF	20.00% 16V
C8504	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C8825	1-115-340-11	CERAMIC CHIP 0.22UF	10.00% 25V
C8505	1-126-933-11	ELECT 100UF	20.00% 16V	C8826	1-163-251-11	CERAMIC CHIP 100PF	5.00% 50V
C8506	1-163-037-11	CERAMIC CHIP 0.022UF	10.00% 50V	C8827	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C8507	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C8828	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C8508	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C8829	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C8509	1-126-933-11	ELECT 100UF	20.00% 16V	C8830	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C8510	1-104-664-11	ELECT 47UF	20.00% 16V	C8831	1-126-964-11	ELECT 10UF	20.00% 50V
C8511	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C8832	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C8512	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C8833	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C8513	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C8834	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C8514	1-164-004-11		10.00% 25V	C8835	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
		<u> </u>				<u> </u>	
C8515	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C8836	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C8516	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C8837	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C8517	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C8838	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C8518	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C8839	1-163-251-11	CERAMIC CHIP 100PF	5.00% 50V
C8519	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C8840	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C8520	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C8841	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C8521		CERAMIC CHIP 0.1UF	10.00% 25V	C8842	1-104-664-11		20.00% 16V
C8601		CERAMIC CHIP 0.22UF	10.00% 25V	C8843		CERAMIC CHIP 0.1UF	10.00% 25V
C8602		CERAMIC CHIP 0.22UF	10.00% 25V	C8844		CERAMIC CHIP 0.01UF	10.00% 50V
C8605		CERAMIC CHIP 0.22UF	10.00% 25V	C8846	1-126-933-11	ELECT 100UF	20.00% 16V
C8606	1_115_3/0_11	CERAMIC CHIP 0.22UF	10.00% 25V	C8847	1_164_004_11	CERAMIC CHIP 0.1UF	10.00% 25V
C8607	1-104-664-11		20.00% 16V	C8849		CERAMIC CHIP 1UF	16V
C8608	1-104-664-11		20.00% 16V	C8850		CERAMIC CHIP 1UF	16V
C8609		CERAMIC CHIP 0.22UF	10.00% 25V	C8851	1-126-967-11		20.00% 50V
C8610		CERAMIC CHIP 0.22UF	10.00% 25V	C8852		CERAMIC CHIP 1UF	16V
00.011	1 115 040 44	GEDANTG GUTD A COUR	10 000 05**	00050	1 100 000 11	ET EOM 45***	20 000 50**
C8611		CERAMIC CHIP 0.22UF	10.00% 25V	C8853	1-126-967-11		20.00% 50V
C8612		CERAMIC CHIP 0.22UF	10.00% 25V	C8854		CERAMIC CHIP 1UF	16V
C8613	1-104-664-11		20.00% 16V	C8855		CERAMIC CHIP 1UF	16V
C8614	1-104-664-11		20.00% 16V	C8856		CERAMIC CHIP 1UF	16V
C8700	1-126-964-11	ELECT 10UF	20.00% 50V	C8857	1-104-340-11	CERAMIC CHIP 1UF	16V
C8701	1-104-664-11		20.00% 16V	C8858		CERAMIC CHIP 1UF	16V
C8702		CERAMIC CHIP 470PF	5.00% 50V	C8859		CERAMIC CHIP 1UF	16V
C8703		CERAMIC CHIP 0.1UF	10.00% 25V	C8860		CERAMIC CHIP 1UF	16V
C8704		CERAMIC CHIP 0.01UF	10.00% 50V	C8861		CERAMIC CHIP 1UF	16V
C8705	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C8862	1-164-346-11	CERAMIC CHIP 1UF	16V

REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
C8863	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	D8813	8-719-158-49	DIODE UDZ-TE-17-12B	
C8864	1-164-346-11	CERAMIC CHIP 1UF	16V	D8814	8-719-158-49	DIODE UDZ-TE-17-12B	
C8865	1-104-664-11	ELECT 47UF	20.00% 16V	D8900	8-719-056-85	DIODE UDZS-TE17-8.2B	
C8866		CERAMIC CHIP 1UF	16V	D8901	8-719-158-49	DIODE UDZ-TE-17-12B	
C8867	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	D8902	8-719-056-85	DIODE UDZS-TE17-8.2B	
C8868	1-126-964-11		20.00% 50V	D8903		DIODE UDZS-TE17-8.2B	
C8869		CERAMIC CHIP 0.1UF	10.00% 25V	D8904		DIODE UDZS-TE17-8.2B	
C8900		CERAMIC CHIP 100PF	5.00% 50V	D8905		DIODE UDZS-TE17-8.2B	
C8901		CERAMIC CHIP 0.0047UF	10.00% 50V	D8906		DIODE UDZS-TE17-8.2B	
C8902	1-163-017-00	CERAMIC CHIP 0.0047UF	10.00% 50V	D8907	8-719-138-49	DIODE UDZ-TE-17-12B	
C8903		CERAMIC CHIP 100PF	5.00% 50V	D8908	8-719-056-85	DIODE UDZS-TE17-8.2B	
C8904		CERAMIC CHIP 0.0047UF	10.00% 50V	D8909	8-719-056-85	DIODE UDZS-TE17-8.2B	
C8905		CERAMIC CHIP 100PF	5.00% 50V	D8910		DIODE UDZS-TE17-8.2B	
C8906		CERAMIC CHIP 100PF	5.00% 50V	D8911		DIODE UDZS-TE17-8.2B	
C8907	1-163-017-00	CERAMIC CHIP 0.0047UF	10.00% 50V	D8912	8-719-158-49	DIODE UDZ-TE-17-12B	
C8908		CERAMIC CHIP 100PF	5.00% 50V	D8913		DIODE UDZ-TE-17-12B	
C8909		CERAMIC CHIP 0.0047UF	10.00% 50V	D8914		DIODE UDZ-TE-17-12B	
C8910		CERAMIC CHIP 100PF	5.00% 50V	D8915	8-719-158-49	DIODE UDZ-TE-17-12B	
C8911 C8914	1-163-017-00	CERAMIC CHIP 0.0047UF ELECT 100UF	10.00% 50V 20.00% 16V		<filter></filter>		
00711	1 110 333 11	10001	20.000 200		1111110		
C8977		CERAMIC CHIP 0.001UF	10.00% 50V	FL8200		ENCAPSULATED COMPONENT	
C8978	1-163-009-11	CERAMIC CHIP 0.001UF	10.00% 50V	FL8201	1-233-764-21		
				FL8203		ENCAPSULATED COMPONENT	
	<filter></filter>			FL8302		ENCAPSULATED COMPONENT	
CF8200	1-781-328-21	TRAP, CERAMIC		FL8304	1-236-0/1-11	ENCAPSULATED COMPONENT	
Crozoo	1 701 320 21	IMI, CHAMIC		FL8308	1-236-071-11	ENCAPSULATED COMPONENT	
	<connecto< td=""><td>)R&gt;</td><td></td><td>FL8500</td><td></td><td>ENCAPSULATED COMPONENT</td><td></td></connecto<>	)R>		FL8500		ENCAPSULATED COMPONENT	
				FL8501	1-236-071-11	ENCAPSULATED COMPONENT	
CN8101	1-695-302-11	CONNECTOR, BOARD TO BOA	RD 50P	FL8502	1-233-765-21	FILTER	
CN8900	1-561-534-41	SOCKET, PIN 21P		FL8503	1-233-768-21	FILTER	
CN8901	1-695-293-11	SOCKET 21P					
CN8902	1-695-293-11	SOCKET 21P		FL8504	1-233-766-21	FILTER	
				FL8700		ENCAPSULATED COMPONENT	
	<diode></diode>			FL8701		ENCAPSULATED COMPONENT	
				FL8801		ENCAPSULATED COMPONENT	
D8200		DIODE UDZ-TE-17-12B		FL8802	1-236-071-11	ENCAPSULATED COMPONENT	
D8201		DIODE UDZ-TE-17-12B					
D8202		DIODE UDZ-TE-17-12B DIODE UDZ-TE-17-12B			<ic></ic>		
D8203 D8801		DIODE UDZ-TE-17-12B		IC8101	0 750 576 76	IC TDA2822D013TR	
DOOOT	0-719-130-49	DIODE 0D7-1E-11-15P		IC8151		IC CXA1875AM-T4	
D8802	0_710_150_40	DIODE UDZ-TE-17-12B		IC8200		IC MSP3410D-C50A-B4	
D8803		DIODE UDZ-TE-17-12B		IC8201		IC MC3403NS-E20	
D8804		DIODE UDZ-TE-17-12B		IC8202	8-759-908-15		
D8805		DIODE UDZ-TE-17-12B		100202	2 .03 500 13		
D8806		DIODE UDZ-TE-17-12B		IC8301	8-752-096-06	IC CXA2163Q-T6	
•				IC8302		IC TC7SET08FU(TE85R)	
D8807	8-719-158-49	DIODE UDZ-TE-17-12B		IC8500		IC CXD2064Q-T6	
D8808		DIODE UDZ-TE-17-12B		IC8601		IC LF90CDT-TR	
D8809		DIODE UDZ-TE-17-12B		IC8602	8-759-576-72	IC LF50CDT-TR	
D8810	8-719-158-49	DIODE UDZ-TE-17-12B					
D8811	8-719-158-49	DIODE UDZ-TE-17-12B		IC8603	8-759-576-72	IC LF50CDT-TR	
				IC8604	8-759-576-72	IC LF50CDT-TR	
D8812	8-719-158-49	DIODE UDZ-TE-17-12B		IC8700	8-752-390-35	IC CXD2057M-T6	

REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION			REMARK
IC8801	8-752-096-83	IC CXA2149AQ-TL		R8106	1-216-081-00	RES-CHIP	22K	5%	1/10W
IC8802	8-759-385-76	IC MC14052BDR2		R8107	1-216-081-00	RES-CHIP	22K	5%	1/10W
				R8108	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
	<jack></jack>			R8109	1-249-389-11	CARBON	4.7	5%	1/4W
				R8110	1-249-389-11	CARBON	4.7	5%	1/4W
J8901	1-774-747-11	JACK BLOCK, PIN							
		"		R8111	1-216-033-00	RES-CHIP	220	5%	1/10W
	<chip con<="" td=""><td>DUCTOR&gt;</td><td></td><td>R8112</td><td>1-216-033-00</td><td>RES-CHIP</td><td>220</td><td>5%</td><td>1/10W</td></chip>	DUCTOR>		R8112	1-216-033-00	RES-CHIP	220	5%	1/10W
				R8115	1-216-029-00	RES-CHIP	150	5%	1/10W
JR8401	1-216-295-11	SHORT 0		R8116	1-216-029-00		150	5%	1/10W
				R8117	1-216-029-00	RES-CHIP	150	5%	1/10W
	<coil></coil>								·
				R8118	1-216-029-00	RES-CHIP	150	5%	1/10W
L8200	1-412-006-31	INDUCTOR 10UH		R8165	1-216-295-11	SHORT	0		•
L8202	1-408-615-31			R8167	1-216-025-11		100	5%	1/10W
L8203	1-408-615-31			R8168	1-216-025-11		100	5%	1/10W
	2 100 020 02	20001011		R8174	1-216-065-91		4.7K		1/10W
	<transist< td=""><td>OR&gt;</td><td></td><td>101/1</td><td>1 110 000 71</td><td></td><td>4.71</td><td>- 0</td><td>_/ _ v</td></transist<>	OR>		101/1	1 110 000 71		4.71	- 0	_/ _ v
	/11/11/010101			R8175	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
Q8100	8-729-120-28	TRANSISTOR 2SC2412K-	T-146-R	R8200	1-216-049-11		1K	ა 5%	1/10W 1/10W
Q8100 Q8101	8-729-120-28	TRANSISTOR 2SC2412K-		R8200	1-216-049-11	SHORT	0	J-0	±/ ±0H
Q8101 Q8156	8-729-120-28			R8201	1-216-295-11		68	5%	1/10W
Q8157	8-729-120-28			R8203	1-216-069-00	VE9-CUIL	6.8K	5%	1/10W
Q8200	8-729-120-28	TRANSISTOR 2SC2412K-	r-146-K	20004	1 016 040 11		4 ***	<b>-</b> 0	1 /1 000
			- 444 -	R8204	1-216-049-11		1K	5% - ∘	1/10W
Q8201	8-729-120-28	TRANSISTOR 2SC2412K-		R8205	1-216-069-00		6.8K	5% <b>-</b> ∘	1/10W
Q8202	8-729-120-28	TRANSISTOR 2SC2412K-		R8206	1-216-049-11		1K	<b>5</b> %	1/10W
Q8300	8-729-026-49			R8208	1-216-037-00		330	5%	1/10W
Q8302	8-729-120-28	TRANSISTOR 2SC2412K-		R8209	1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W
Q8303	8-729-120-28	TRANSISTOR 2SC2412K-	I-146-R						
				R8210	1-216-025-11		100	5%	1/10W
Q8305	8-729-120-28	TRANSISTOR 2SC2412K-		R8211	1-216-295-11	SHORT	0		
Q8306	8-729-120-28	TRANSISTOR 2SC2412K-		R8212	1-216-295-11	SHORT	0		
Q8308	8-729-038-96			R8213	1-216-295-11	SHORT	0		
Q8309	8-729-038-96			R8214	1-216-295-11	SHORT	0		
Q8310	8-729-038-96	TRANSISTOR IMZ1A-T10	9						
				R8216	1-216-025-11		100	5%	1/10W
Q8501	8-729-026-49	TRANSISTOR 2SA1037AK	-T146-R	R8217	1-216-025-11	RES-CHIP	100	5%	1/10W
Q8503	8-729-026-49	TRANSISTOR 2SA1037AK	-T146-R	R8218	1-216-049-11	RES-CHIP	1K	5%	1/10W
Q8504	8-729-026-49	TRANSISTOR 2SA1037AK	-T146-R	R8219	1-216-025-11	RES-CHIP	100	5%	1/10W
Q8700	8-729-120-28	TRANSISTOR 2SC2412K-	I-146-R	R8220	1-216-025-11	RES-CHIP	100	5%	1/10W
Q8801	8-729-026-49	TRANSISTOR 2SA1037AK	-T146-R						
				R8221	1-216-025-11	RES-CHIP	100	5%	1/10W
Q8802	8-729-026-49	TRANSISTOR 2SA1037AK	-T146-R	R8222	1-216-295-11	SHORT	0		
Q8805	8-729-026-49	TRANSISTOR 2SA1037AK	-T146-R	R8223	1-216-089-11	RES-CHIP	47K	5%	1/10W
Q8807	8-729-026-49			R8224	1-216-089-11		47K	5%	1/10W
Q8809	8-729-026-49	TRANSISTOR 2SA1037AK	-T146-R	R8225	1-216-089-11		47K	5%	1/10W
Q8817	8-729-120-28								
_				R8226	1-216-089-11	RES-CHIP	47K	5%	1/10W
Q8818	8-729-120-28	TRANSISTOR 2SC2412K-	I-146-R	R8227	1-216-089-11		47K	5%	1/10W
Q8819	8-729-120-28	TRANSISTOR 2SC2412K-		R8228	1-216-089-11		47K	5%	1/10W
Q8901	8-729-120-28			R8229	1-216-295-11		0		-, <del>- v</del>
Q8902		TRANSISTOR 2SA1037AK		R8230	1-216-081-00		22K	5%	1/10W
X0202	5 ,23 020 49	LIMITOTOR ZURIUJ/RR		10230	1 110 001 00	OHIE	11	<b>.</b> 0	-/ -VII
	<resistor< td=""><td><b>`</b></td><td></td><td>R8231</td><td>1-216-089-11</td><td>DEC-CHID</td><td>47K</td><td>5%</td><td>1/10W</td></resistor<>	<b>`</b>		R8231	1-216-089-11	DEC-CHID	47K	5%	1/10W
	/ME31310F	•		R8232	1-216-089-11		47K	ეი 5%	1/10W 1/10W
R8103	1_216_075 00	RES-CHIP 12K	5% 1/10W		1-216-089-11			วช 5%	1/10W 1/10W
	1-216-075-00		•	R8233			47K		
R8104 R8105	1-216-075-00		5% 1/10W	R8234	1-216-089-11		47K	5% = 0.	1/10W
⊌× i II5	1-216-057-00	RES-CHIP 2.2K	5% 1/10₩	R8235	1-216-089-11	KES-CHIP	47K	5%	1/10W

REF.NO.	PART.NO	DESCRIPTION			REMARK	REF.NO.	PART.NO	DESCRIPTION			REMARK
R8236	1-216-089-11	RES-CHIP	47K	5%	1/10W	R8517	1-216-295-11	SHORT	0		
R8237	1-216-043-91	RES-CHIP	560	5%	1/10W	R8519	1-216-037-00	RES-CHIP	330	5%	1/10W
R8238	1-216-063-91	RES-CHIP	3.9K	5%	1/10W	R8520	1-216-041-00	RES-CHIP	470	5%	1/10W
R8239	1-216-069-00	RES-CHIP	6.8K	5%	1/10W	R8521	1-216-061-00	RES-CHIP	3.3K	5%	1/10W
R8240	1-208-782-11	METAL CHIP	1K	0.5%	1/10W	R8522	1-216-041-00	RES-CHIP	470	5%	1/10W
R8243	1-216-021-00	RES-CHIP	68	5%	1/10W	R8523	1-216-033-00	RES-CHIP	220	5%	1/10W
R8300	1-216-295-11	SHORT	0			R8524	1-216-295-11	SHORT	0		
R8302	1-216-017-91	RES-CHIP	47	5%	1/10W	R8526	1-216-061-00	RES-CHIP	3.3K	5%	1/10W
R8306	1-216-083-00	RES-CHIP	27K	5%	1/10W	R8527	1-216-047-91	RES-CHIP	820	5%	1/10W
R8307	1-216-049-11	RES-CHIP	1K	5%	1/10W	R8528	1-216-047-91	RES-CHIP	820	5%	1/10W
R8308	1-216-039-00	RES-CHIP	390	5%	1/10W	R8529	1-216-055-00	RES-CHIP	1.8K	5%	1/10W
R8309	1-216-049-11	RES-CHIP	1K	5%	1/10W	R8530	1-216-051-00	RES-CHIP	1.2K	5%	1/10W
R8310	1-216-037-00	RES-CHIP	330	5%	1/10W	R8531	1-216-053-00	RES-CHIP	1.5K		1/10W
R8312	1-216-091-00	RES-CHIP	56K	5%	1/10W	R8532	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8313	1-216-081-00		22K	5%	1/10W	R8700	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8314	1-216-295-11	SHORT	0			R8701	1-216-073-00	RES-CHIP	10K	5%	1/10W
R8316	1-216-037-00		330	5%	1/10W	R8702	1-216-025-11		100	5%	1/10W
R8317	1-216-295-11		0	•	-,	R8703	1-216-025-11	RES-CHIP	100	5% 5%	1/10W
R8318	1-216-295-11		0			R8704	1-216-025-11	RES-CHIP	100	5% 5%	1/10W
R8319	1-216-295-11		0			R8705	1-216-295-11		0	•	2/2011
D0200	1 016 041 00	DEG GUID	470	E0	1 /1 017	D070C	1 016 040 11	DEG GUID	117	<b>E</b> 0	1 /1 017
R8320	1-216-041-00		470	5% = 0	1/10W	R8706	1-216-049-11		1K	5% 5%	1/10W
R8322	1-216-049-11		1K	5% 5%	1/10W	R8707	1-216-089-11		47K	วช 5%	1/10W
R8323	1-216-017-91		47		1/10W	R8708	1-216-081-00	RES-CHIP	22K		1/10W
R8324	1-216-041-00		470	5% •°	1/10W	R8709	1-216-059-00	RES-CHIP	2.7K	5% <b>5</b> °	1/10W
R8326	1-216-017-91	RES-CHIP	47	5%	1/10W	R8801	1-216-089-11	RES-CHIP	47K	5%	1/10W
R8328	1-216-025-11		100	5%	1/10W	R8802	1-216-073-00	RES-CHIP	10K	5%	1/10W
R8329	1-216-025-11		100	5%	1/10W	R8803	1-216-089-11	RES-CHIP	47K	5%	1/10W
R8330	1-216-041-00		470	5%	1/10W	R8804	1-216-073-00	RES-CHIP	10K	5%	1/10W
R8331	1-216-041-00		470	5%	1/10W	R8805	1-216-065-91		4.7K	5%	1/10W
R8332	1-216-041-00	RES-CHIP	470	5%	1/10W	R8806	1-216-085-00	RES-CHIP	33K	5%	1/10W
R8333	1-216-041-00	RES-CHIP	470	5%	1/10W	R8807	1-216-089-11	RES-CHIP	47K		1/10W
R8334	1-216-041-00	RES-CHIP	470	5%	1/10W	R8810	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R8336	1-216-041-00	RES-CHIP	470	5%	1/10W	R8813	1-216-073-00		10K	5%	1/10W
R8337	1-216-041-00	RES-CHIP	470	5%	1/10W	R8816	1-216-089-11	RES-CHIP	47K	5%	1/10W
R8338	1-216-017-91	RES-CHIP	47	5%	1/10W	R8817	1-216-073-00	RES-CHIP	10K	5%	1/10W
R8339	1-216-017-91	RES-CHIP	47	5%	1/10W	R8820	1-216-295-11	SHORT	0		
R8340	1-216-063-91	RES-CHIP	3.9K	5%	1/10W	R8821	1-216-089-11	RES-CHIP	47K	5%	1/10W
R8341	1-216-041-00	RES-CHIP	470	5%	1/10W	R8822	1-216-073-00	RES-CHIP	10K	5%	1/10W
R8344	1-216-091-00	RES-CHIP	56K	5%	1/10W	R8826	1-216-051-00	RES-CHIP	1.2K	5%	1/10W
R8345	1-216-079-00	RES-CHIP	18K	5%	1/10W	R8836	1-216-025-11	RES-CHIP	100	5%	1/10W
R8346	1-216-091-00	RES-CHIP	56K	5%	1/10W	R8846	1-216-295-11	SHORT	0		
R8347	1-216-079-00		18K	5%	1/10W	R8854	1-216-029-00		150	5%	1/10W
R8506	1-216-091-00		56K	5%	1/10W	R8855	1-216-031-00		180	5%	1/10W
R8507	1-216-295-11		0			R8856	1-216-055-00		1.8K		1/10W
R8508	1-216-043-91		560	5%	1/10W	R8857	1-216-089-11		47K	5%	1/10W
R8509	1-216-031-00	RES-CHIP	180	5%	1/10W	R8858	1-216-079-00	RES-CHIP	18K	5%	1/10W
R8510	1-216-067-00		5.6K		1/10W	R8859	1-216-057-00		2.2K		1/10W
R8511	1-216-049-11		1K	5% 5%	1/10W	R8864	1-216-037-00		0	<b>.</b> 0	-/ -0"
R8512	1-216-295-11		0	<b>.</b> 0	-/ -/1	R8865	1-216-023-00		82	5%	1/10W
R8514	1-216-017-91		47	5%	1/10W	R8866	1-216-023-00		75	5% 5%	1/10W
			• '	- 0	-/ - • • • •	210000			, 3	- 0	-/

REF.NO.	PART.NO	DESCRIPTION			REMARK	REF.NO.	PART.NO	DESCRIPTION			REMARK
R8867	1-216-049-11	RES-CHIP	1K	5%	1/10W	R8931	1-216-039-00	RES-CHIP	390	5%	1/10W
R8868	1-216-033-00	RES-CHIP	220	5%	1/10W	R8932	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8869	1-216-033-00	RES-CHIP	220	5%	1/10W	R8933	1-216-089-11	RES-CHIP	47K	5%	1/10W
R8870	1-216-295-11	SHORT	0			R8934	1-216-089-11	RES-CHIP	47K	5%	1/10W
R8871	1-216-049-11	RES-CHIP	1K	5%	1/10W	R8935	1-216-113-00	RES-CHIP	470K	5%	1/10W
R8872	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R8936	1-216-113-00	RES-CHIP	470K	5%	1/10W
R8873	1-216-113-00	RES-CHIP	470K	5%	1/10W	R8937	1-216-035-00	RES-CHIP	270	5%	1/10W
R8874	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R8938	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R8875	1-216-113-00	RES-CHIP	470K	5%	1/10W	R8939	1-216-035-00	RES-CHIP	270	5%	1/10W
R8876	1-216-093-91	RES-CHIP	68K	5%	1/10W	R8940	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R8877	1-216-093-91	RES-CHIP	68K	5%	1/10W	R8941	1-216-025-11	RES-CHIP	100	5%	1/10W
R8878	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R8942	1-216-009-91	RES-CHIP	22	5%	1/10W
R8879	1-216-689-11	METAL CHIP	39K	0.5%	1/10W	R8943	1-216-022-00	RES-CHIP	75	5%	1/10W
R8880	1-216-295-11	SHORT	0			R8944	1-216-071-00	RES-CHIP	8.2K	5%	1/10W
R8881	1-216-089-11	RES-CHIP	47K	5%	1/10W	R8945	1-216-022-00	RES-CHIP	75	5%	1/10W
R8882	1-216-079-00	RES-CHIP	18K	5%	1/10W	R8946	1-216-033-00		220	5%	1/10W
R8883	1-216-663-11	METAL CHIP	3.3K	0.5%	1/10W	R8947	1-216-039-00	RES-CHIP	390	5%	1/10W
R8885	1-216-663-11	METAL CHIP	3.3K	0.5%	1/10W	R8948	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8888	1-216-033-00	RES-CHIP	220	5%	1/10W	R8949	1-216-022-00	RES-CHIP	75	5%	1/10W
R8889	1-216-033-00	RES-CHIP	220	5%	1/10W	R8950	1-216-089-11	RES-CHIP	47K	5%	1/10W
	1 016 005 11		•			20051					4 /4 0
R8890	1-216-295-11	SHORT	0			R8951	1-216-033-00	RES-CHIP	220	5% -∘	1/10W
R8892	1-216-295-11	SHORT	0			R8952	1-216-113-00	RES-CHIP	470K	5% - ∘	1/10W
R8893	1-216-295-11	SHORT	0		4 /4 0	R8953	1-216-035-00	RES-CHIP	270	5% - ∘	1/10W
R8900	1-216-039-00	RES-CHIP	390	<b>5</b> %	1/10W	R8954	1-216-057-00	RES-CHIP	2.2K	<b>5</b> %	1/10W
R8901	1-216-049-11	RES-CHIP	1K	5%	1/10W	R8955	1-216-039-00	RES-CHIP	390	5%	1/10W
R8902	1-216-039-00	RES-CHIP	390	5%	1/10W	R8956	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8903	1-216-089-11	RES-CHIP	47K	5%	1/10W	R8957	1-216-025-11	RES-CHIP	100	5%	1/10W
R8904	1-216-089-11	RES-CHIP	47K	5%	1/10W	R8958	1-216-089-11	RES-CHIP	47K	<b>5</b> %	1/10W
R8905	1-216-113-00	RES-CHIP	470K	5%	1/10W	R8959	1-216-022-00	RES-CHIP	75	<b>5</b> %	1/10W
R8906	1-216-035-00	RES-CHIP	270	5%	1/10W	R8960	1-216-033-00		220	5%	1/10W
				•	-,					•	-,
R8907	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R8961	1-216-022-00	RES-CHIP	75	5%	1/10W
R8908	1-216-035-00		270	5%	1/10W	R8962	1-216-071-00		8.2K	5%	1/10W
R8909	1-216-049-11		1K	5%	1/10W	R8963	1-216-113-00		470K	5%	1/10W
R8911	1-216-025-11		100	<b>5</b> %	1/10W	R8964	1-216-035-00		270	5% 5%	1/10W
R8913	1-216-022-00		75	5% 5%	1/10W	R8965	1-216-057-00		2.2K		1/10W
	, <b></b> , <b></b>		-	-	•		35. 30				
R8914	1-216-071-00	RES-CHIP	8.2K	5%	1/10W	R8968	1-216-022-00	RES-CHIP	75	5%	1/10W
R8915	1-216-022-00		75	5%	1/10W	R8969	1-216-033-00		220	5%	1/10W
R8916	1-216-033-00		220	5%	1/10W	R8974	1-216-057-00		2.2K	5%	1/10W
R8917	1-216-033-00		220	5%	1/10W	R8977	1-216-037-00		330	5%	1/10W
R8918	1-216-113-00		470K		1/10W	R8978	1-216-037-00		330	5%	1/10W
R8919	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R8979	1-216-045-00	RES-CHIP	680	5%	1/10W
R8922	1-216-022-00	RES-CHIP	75	5%	1/10W	R8980	1-216-045-00	RES-CHIP	680	5%	1/10W
R8923	1-216-022-00	RES-CHIP	75	5%	1/10W	R8981	1-216-089-11	RES-CHIP	47K	5%	1/10W
R8924	1-216-022-00	RES-CHIP	75	5%	1/10W	R8982	1-216-079-00	RES-CHIP	18K	5%	1/10W
R8925	1-216-022-00	RES-CHIP	75	5%	1/10W	R8994	1-216-073-00	RES-CHIP	10K	5%	1/10W
R8926	1-216-033-00		220	5%	1/10W	R8995	1-216-089-11		47K	5%	1/10W
R8927	1-216-033-00		220	5%	1/10W	R8996	1-216-059-00	RES-CHIP	2.7K	5%	1/10W
R8928	1-216-033-00		220	5%	1/10W						
R8929	1-216-039-00	RES-CHIP	390	5%	1/10W						
R8930	1-216-049-11	RES-CHIP	1K	5%	1/10W						

REF.NO.	PART.NO	DESCRIPTION	RE	MARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
	<crystal></crystal>	•						
X8200	1-781-148-21							
X8301	1-781-612-11							
X8700	1-767-342-21	VIBRATOR, CR	ISTAL					